



Department of the Air Force

Military Construction Program

**Fiscal Year (FY) 2017
Budget Estimates**

**Justification Data Submitted to Congress
February 2016**

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
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**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION AND MILITARY FAMILY HOUSING FISCAL YEAR 2017
PROGRAM SUMMARY**

	Authorization Request <u>(\$000)</u>	Appropriation Request <u>(\$000)</u>
Military Construction		
Inside the United States	960,250	960,250
Outside the United States	347,226	347,226
Planning and Design (10 USC §2807)		143,582
Unspecified Minor Construction (10 USC §2805)		30,000
Total Military Construction	1,307,476	1,481,058
Military Family Housing		
New Construction	0	0
Improvements	56,984	56,984
Planning and Design	4,368	4,368
Subtotal	61,352	61,352
Operations, Utilities and Maintenance	212,090	212,090
Operations	89,380	89,380
Utilities	37,241	37,241
Maintenance	85,469	85,469
Privatization	41,809	41,809
Leasing	20,530	20,530
Subtotal	274,429	274,429
Reimbursement Request		5,715
Total Military Family Housing	335,781	341,496
Grand Total Air Force	1,643,257	1,822,554

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**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
INDEX - INSIDE THE US
(DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
ALASKA	Clear	Fire Station	20,000	20,000
		Clear TOTAL:	20,000	20,000
	Eielson	F-35A ADAL FTD Facility	22,100	22,100
		F-35A Aircraft Weather Shelter (Sqd 1)	79,500	79,500
		F-35A Aircraft Weather Shelter (Sqd 2)	82,300	82,300
		F-35A Earth Covered Magazines	11,300	11,300
		F-35A Hangar/Propulsion MX/Dispatch	44,900	44,900
		F-35A Hangar/Squad Ops/AMU Sq #2	42,700	42,700
		F-35A Missile Maintenance Facility	12,800	12,800
	Eielson TOTAL:	295,600	295,600	
	JB Elmendorf-Richardson	Add/Alter AWACS Alert Hangar	29,000	29,000
		JB Elmendorf-Richardson TOTAL:	29,000	29,000
	ALASKA TOTAL:			344,600
ARIZONA	Luke	F-35A Squad Ops/AMU #5	20,000	20,000
		Luke TOTAL:	20,000	20,000
	ARIZONA TOTAL:			20,000
CALIFORNIA	Edwards	Flightline Fire Station	24,000	24,000
		Edwards TOTAL:	24,000	24,000
	CALIFORNIA TOTAL:			24,000
COLORADO	Buckley	Small Arms Range Complex	13,500	13,500
		Buckley TOTAL:	13,500	13,500
	COLORADO TOTAL:			13,500
DELAWARE	Dover	Aircraft Maintenance Hangar	39,000	39,000
		Dover TOTAL:	39,000	39,000
	DELAWARE TOTAL:			39,000
FLORIDA	Eglin	Advanced Munitions Technology Complex	75,000	75,000
		Flightline Fire Station	13,600	13,600
		Eglin TOTAL:	88,600	88,600
	Patrick	Fire/Crash Rescue Station	13,500	13,500
		Patrick TOTAL:	13,500	13,500
FLORIDA TOTAL:			102,100	102,100
GEORGIA	Moody	Personnel Recovery 4-Bay Hangar/HMU	30,900	30,900
		Moody TOTAL:	30,900	30,900
	GEORGIA TOTAL:			30,900
KANSAS	McConnell	Air Traffic Control Tower	11,200	11,200
		KC-46A ADAL Taxiway Delta	5,600	5,600
		KC-46A Alter Flight Simulator Bldgs	3,000	3,000
		McConnell TOTAL:	19,800	19,800
	KANSAS TOTAL:			19,800
LOUISIANA	Barksdale	Consolidated Communication Facility	21,000	21,000
		Barksdale TOTAL:	21,000	21,000
	LOUISIANA TOTAL:			21,000
MARYLAND	JB Andrews	21 Points Enclosed Firing Range	13,000	13,000
		PAR Relocate JADOC Satellite Site	3,500	3,500
	JB Andrews TOTAL:	16,500	16,500	
MARYLAND TOTAL:			16,500	16,500

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
INDEX - INSIDE THE US
(DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
MASSACHUSETTS	Hanscom	System Management Engineering Facility	20,000	20,000
		Hanscom TOTAL:	20,000	20,000
		MASSACHUSETTS TOTAL:	20,000	20,000
MONTANA	Malmstrom	Relocate Missile Maintenance Facility	14,600	14,600
		Malmstrom TOTAL:	14,600	14,600
		MONTANA TOTAL:	14,600	14,600
NEVADA	Nellis	F-35A POL Fill Stand Addition	10,600	10,600
		Nellis TOTAL:	10,600	10,600
		NEVADA TOTAL:	10,600	10,600
NEW MEXICO	Cannon	North Fitness Center	21,000	21,000
		Cannon TOTAL:	21,000	21,000
	Holloman	Hazardous Cargo Pad and Taxiway	10,600	10,600
		Holloman TOTAL:	10,600	10,600
	Kirtland	Combat Rescue Helicopter Simulator	7,300	7,300
NEW MEXICO TOTAL:	Kirtland TOTAL:	7,300	7,300	
NEW MEXICO TOTAL:	NEW MEXICO TOTAL:	38,900	38,900	
OHIO	Wright-Patterson	Relocate Entry Control Facility 26A	12,600	12,600
		Wright-Patterson TOTAL:	12,600	12,600
		OHIO TOTAL:	12,600	12,600
OKLAHOMA	Altus	KC-46A FTU/FTC Simulator Facility Ph 2	11,600	11,600
		Altus TOTAL:	11,600	11,600
	Tinker	KC-46A Depot System Integration Laboratory	17,000	17,000
		Tinker TOTAL:	17,000	17,000
	OKLAHOMA TOTAL:	OKLAHOMA TOTAL:	28,600	28,600
TEXAS	JBSA - Lackland	BMT Recruit Dormitory 6	67,300	67,300
		JBSA - Lackland TOTAL:	67,300	67,300
		TEXAS TOTAL:	67,300	67,300
UTAH	Hill	649 MUNS Munitions Storage Magazines	6,600	6,600
		649 MUNS Precision Guided Missile MX Facility	8,700	8,700
		649 MUNS Stamp/M&I Facility	12,000	12,000
		Composite Aircraft Antenna Calibration Fac	7,100	7,100
		F-35A Munitions Mx Complex	10,100	10,100
		Hill TOTAL:	44,500	44,500
UTAH TOTAL:	UTAH TOTAL:	44,500	44,500	
VIRGINIA	JB Langley-Eustis	Air Force Targeting Center	45,000	45,000
		Fuel System Maintenance Dock	14,200	14,200
		JB Langley-Eustis TOTAL:	59,200	59,200
VIRGINIA TOTAL:	VIRGINIA TOTAL:	59,200	59,200	
WASHINGTON	Fairchild	Pipeline Dorm, USAF SERE School (150 RM)	27,000	27,000
		Fairchild TOTAL:	27,000	27,000
		WASHINGTON TOTAL:	27,000	27,000
WYOMING	FE Warren	Missile Transfer Facility Bldg 4331	5,550	5,550
		FE Warren TOTAL:	5,550	5,550
		WYOMING TOTAL:	5,550	5,550
INSIDE THE US TOTAL:			960,250	960,250

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
INDEX - OUTSIDE THE US
(DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
AUSTRALIA	RAAF Darwin	APR - Aircraft MX Support Facility	1,800	1,800
		APR - Expand Parking Apron	28,600	28,600
		RAAF Darwin TOTAL:	30,400	30,400
		AUSTRALIA TOTAL:	30,400	30,400
COMMONWEALTH OF NORTHERN MARIANA ISLANDS	Unspecified	APR - Land Acquisition	9,000	9,000
		Unspecified TOTAL:	9,000	9,000
		COMMONWEALTH OF NORTHERN MARIANA ISLANDS TOTAL:	9,000	9,000
GERMANY	Ramstein	37 AS Squadron Operations/AMU	13,437	13,437
		Ramstein TOTAL:	13,437	13,437
	Spangdahlem AB	EIC - Site Development And Infrastructure	43,465	43,465
		Spangdahlem AB TOTAL:	43,465	43,465
		GERMANY TOTAL:	56,902	56,902
GUAM	JRM-Andersen	APR - Munitions Storage Igloos, Ph 2	35,300	35,300
		APR - SATCOM C4I Facility	14,200	14,200
		Block 40 Maintenance Hangar	31,158	31,158
		JRM-Andersen TOTAL:	80,658	80,658
		GUAM TOTAL:	80,658	80,658
JAPAN	Kadena	APR - Replace Munitions Structures	19,815	19,815
		Kadena TOTAL:	19,815	19,815
	Yokota	C-130J Corrosion Control Hangar	23,777	23,777
		Construct CATM Facility	8,243	8,243
		Yokota TOTAL:	32,020	32,020
JAPAN TOTAL:	51,835	51,835		
TURKEY	Incirlik	Airfield Fire/Crash Rescue Station	13,449	13,449
		Incirlik TOTAL:	13,449	13,449
		TURKEY TOTAL:	13,449	13,449
UNITED ARAB EMIRATES	Al Dhafra	Large Aircraft Maintenance Hangar	35,400	35,400
		Al Dhafra TOTAL:	35,400	35,400
		UNITED ARAB EMIRATES TOTAL:	35,400	35,400
UNITED KINGDOM	RAF Croughton	JIAC Consolidation - Ph 3	53,082	53,082
		Main Gate Complex	16,500	16,500
		RAF Croughton TOTAL:	69,582	69,582
		UNITED KINGDOM TOTAL:	69,582	69,582
		OUTSIDE THE US TOTAL:	347,226	347,226
WORLDWIDE UNSPECIFIED	Various Locations	Planning and Design	0	143,582
		Unspecified Minor Military Construction	0	30,000
		WORLDWIDE UNSPECIFIED TOTAL:	0	173,582
INSIDE THE US TOTAL:			960,250	960,250
OUTSIDE THE US TOTAL:			347,226	347,226
WORLDWIDE UNSPECIFIED TOTAL:			0	173,582
FY 2017 TOTAL:			1,307,476	1,481,058

Footnote: Military Construction, Air Force, Japan, Kadena Air Base, Munitions Storage
FY 2016 National Defense Authorization Act, Section 2301(b) erroneously listed the unclassified Munitions Storage in Section 4601 Funding Table under
Air Force Worldwide Classified location, and in the corresponding funding table in the MilCon Appropriations Act Explanatory Statement.

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**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
NEW AND CURRENT MISSION**

DEFINITIONS OF NEW AND CURRENT MISSION

NEW MISSION PROJECTS – New mission projects all support new and additional programs or initiatives that do not revitalize the existing physical plant. These projects support the deployment and bed-down of new weapons systems: new or additional aircraft, missile and space projects; new equipment, e.g. radar, communication, computer satellite tracking and electronic security.

CURRENT MISSION PROJECTS – These projects revitalize the existing facility plant by replacing or upgrading existing facilities and alleviating long-standing deficiencies not generated by new missions or equipment. Included are projects to improve the quality of life, upgrade the workplace, enhance productivity and achieve compliance with environmental, health and safety standards.

<u>FY17</u>	Authorization Request <u>(\$000)</u>	Appropriation Request <u>(\$000)</u>
NEW MISSION	743,782	743,782
CURRENT MISSION	563,694	563,694
PLANNING & DESIGN		143,582
MINOR CONSTRUCTION	_____	<u>30,000</u>
TOTAL:	1,307,476	1,481,058

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
INDEX - CURRENT/NEW MISSION BREAKOUT
(DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	AUTH FOR APPROPRIATION	APPROPRIATION REQUEST	TYPE
ALASKA	Clear	Fire Station	20,000	20,000	CM
ALASKA	JB Elmendorf-Richardson	Add/Alter AWACS Alert Hangar	29,000	29,000	CM
CALIFORNIA	Edwards	Fire Station, Flightline	24,000	24,000	CM
COLORADO	Buckley	Small Arms Range Complex	13,500	13,500	CM
DELAWARE	Dover	Aircraft Maintenance Hangar	39,000	39,000	CM
FLORIDA	Eglin	Flightline Fire Station	13,600	13,600	CM
FLORIDA	Patrick	Fire/Crash Rescue Station	13,500	13,500	CM
GEORGIA	Moody	Personnel Recovery 4-Bay Hangar/HMU	30,900	30,900	CM
GERMANY	Ramstein	37 AS Squadron Operations/AMU	13,437	13,437	CM
GUAM	JRM-Andersen	APR - Munitions Storage Igloos, Ph 2	35,300	35,300	CM
JAPAN	Kadena	APR - Replace Munitions Structures	19,815	19,815	CM
JAPAN	Yokota	Construct CATM Facility	8,243	8,243	CM
KANSAS	McConnell	Air Traffic Control Tower	11,200	11,200	CM
LOUISIANA	Barksdale	Consolidated Communication Facility	21,000	21,000	CM
MARYLAND	JB Andrews	21 Points Enclosed Firing Range	13,000	13,000	CM
MASSACHUSETTS	Hanscom	System Management Engineering Facility	20,000	20,000	CM
MONTANA	Malmstrom	Relocate Missile Maintenance Facility	14,600	14,600	CM
NEW MEXICO	Cannon	North Fitness Center	21,000	21,000	CM
NEW MEXICO	Holloman	Hazardous Cargo Pad and Taxiway	10,600	10,600	CM
OHIO	Wright-Patterson	Relocate Entry Control Facility 26A	12,600	12,600	CM
TEXAS	JBSA - Lackland	BMT Recruit Dormitory 6	67,300	67,300	CM
TURKEY	Incirlik	Airfield Fire/Crash Rescue Station	13,449	13,449	CM
UNITED ARAB EMIRATES	Al Dhafra	Large Aircraft Maintenance Hangar	35,400	35,400	CM
UNITED KINGDOM	RAF Croughton	Main Gate Complex	16,500	6,500	CM
VIRGINIA	JB Langley-Eustis	Fuel System Maintenance Dock	14,200	14,200	CM
WASHINGTON	Fairchild	Pipeline Dorm, USAF SERE School (150 RM)	27,000	27,000	CM
WYOMING	FE Warren	Missile Transfer Facility Bldg 4331	5,550	5,550	CM
Current Mission TOTAL			563,694	563,694	
ALASKA	Eielson	F-35A ADAL FTD Facility	22,100	22,100	NM
ALASKA	Eielson	F-35A Aircraft Weather Shelter (Sqd 2)	82,300	82,300	NM
ALASKA	Eielson	F-35A Aircraft Weather Shelters (Sqd 1)	79,500	79,500	NM
ALASKA	Eielson	F-35A Earth Covered Magazines	11,300	11,300	NM
ALASKA	Eielson	F-35A Hangar/Propulsion MX/Dispatch	44,900	44,900	NM
ALASKA	Eielson	F-35A Hangar/Squad Ops/AMU Sq #2	42,700	42,700	NM
ALASKA	Eielson	F-35A Missile Maintenance Facility	12,800	12,800	NM
ARIZONA	Luke	F-35A Squad Ops/AMU #5	20,000	20,000	NM
AUSTRALIA	RAAF Darwin	APR - Aircraft MX Support Facility	1,800	1,800	NM
AUSTRALIA	RAAF Darwin	APR - Expand Parking Apron	28,600	28,600	NM
Commonwealth of Northern Mariana Islands	Unspecified	APR - Land Acquisition	9,000	9,000	NM
FLORIDA	Eglin	Advanced Munitions Technology Complex	75,000	75,000	NM
GERMANY	Spangdahlem AB	EIC-Site Infrastructure	43,465	43,465	NM
GUAM	JRM-Andersen	APR - SATCOM C4I Facility	14,200	14,200	NM
GUAM	JRM-Andersen	Block 40 Maintenance Hangar	31,158	31,158	NM
JAPAN	Yokota	C-130J Corrosion Control Hangar	23,777	23,777	NM
KANSAS	McConnell	KC-46A ADAL Taxiway Delta	5,600	5,600	NM
KANSAS	McConnell	KC-46A Alter Flight Simulator Bldgs	3,000	3,000	NM
MARYLAND	JB-Andrews	PAR Relocate JADOC Satellite Site	3,500	3,500	NM
NEVADA	Nellis	F-35A POL Fill Stand Addition	10,600	10,600	NM
NEW MEXICO	Kirtland	CRH Simulator	7,300	7,300	NM
OKLAHOMA	Altus	KC-46A FTU/FTC Simulator Facility Ph 2	11,600	11,600	NM
OKLAHOMA	Tinker	KC-46A Depot System Integration Laboratory	17,000	17,000	NM
UNITED KINGDOM	RAF Croughton	JJAC Consolidation - Ph 3	53,082	53,082	NM
UTAH	Hill	649 MUNS Munitions Storage Magazines	6,600	6,600	NM
UTAH	Hill	649 MUNS Precision Guided Missile MX Facility	8,700	8,700	NM
UTAH	Hill	649 MUNS Stamp/M&I Facility	12,000	12,000	NM
UTAH	Hill	Composite Aircraft Antenna Calibration Fac	7,100	7,100	NM
UTAH	Hill	F-35A Munitions Mx Complex	10,100	10,100	NM
VIRGINIA	JB Langley-Eustis	Air Force Targeting Center	45,000	45,000	NM
New Mission TOTAL			743,782	743,782	
WORLDWIDE UNSPECIFIED	Various Locations	Planning and Design	0	143,582	P&D
WORLDWIDE UNSPECIFIED	Various Locations	Unspecified Minor Military Construction	0	30,000	UMMC
Central Program TOTAL			0	173,582	
Active AF Program TOTAL			1,307,476	1,481,058	

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
INSTALLATION INDEX**

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CANNON	AFSOC	NEW MEXICO	119
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**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
SPECIAL PROGRAM CONSIDERATIONS**

ECONOMIC CONSIDERATIONS

An economic evaluation has been accomplished for all projects costing over 2 million where viable options exist and the results are addressed in the individual DD Forms 1391.

DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL

In accordance with Public Law 90-480 provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program.

ENVIRONMENTAL STATEMENT

In accordance with Section 102(2)(c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process (EIAP) has been completed or is actively underway for all projects in the Air Force FY 2017 Military Construction Program.

EVALUATION OF FLOOD PLAINS AND WETLANDS

All projects in the program have been evaluated for compliance with Executive Orders 11988 *Flood Plain Management* and 11990 *Protection of Wetlands* and the Flood Plain Management Guidelines of U.S. Water Resources Council. Projects have been sited to avoid or reduce the risk of flood loss; minimize the impact of floods on human safety, health and welfare; preserve and enhance the natural and beneficial values of wetlands; and minimize the destruction, loss or degradation of wetlands.

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
CONGRESSIONAL REPORTING REQUIREMENTS**

1. STATEMENTS ON NATO ELIGIBILITY

These are in response to the requirement in the FY 1988 Senate Appropriations Committee Report, 100-200, page 13, and are included in the appropriate project justification.

2. NEW AND CURRENT MISSION ACTIVITIES

The FY 1989 Senate Appropriations Committee Report, 100-380, pages 10 and 11, identified a requirement to include an exhibit in the budget justification books that displayed required projects in two separate categories: New Mission and Current Mission. The CM (current mission) or NM (new mission) designation, which follows the project on the listing at page 9, identifies each project as new or current mission. Additionally, each justification in Block 11 of the DD Form 1391 indicates whether the project supports a new or current mission.

3. REAL PROPERTY ADMINISTRATION

The FY 1977 House Appropriations Committee Report, 104-591, page 11, requested the Department to provide the real property maintenance backlog at all installations for which there is a requested construction project. Each DD Form 1390 reflects this information in block 12. In addition, the report requested all troop housing requests to show all real property maintenance conducted in the past two years and all future requirements for unaccompanied housing at that installation. Each DD Form 1391 for troop housing reflects this information in block 11.

4. METRIC CONVERSION

The FY 1999 House Appropriation Committee Report, 105-578, page 11, requested the Department to ensure that any Form 1390/1391, which is presented as justification in metric measurement, shall include parenthetically the English measurement. Each DD Form 1391 reflects the metric and English equivalent in block 11.

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
NON-MILCON FUNDING**

Research and Development (RDT&E) NONE

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
APPROPRIATION SOUGHT FOR PREVIOUSLY AUTHORIZED PROJECTS**

NONE

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
APPROPRIATIONS LANGUAGE**

FY2017 MILITARY CONSTRUCTION, AIR FORCE

For acquisition, construction, installation and equipment of temporary or permanent public works, military installations, facilities and real property of the Air Force as currently authorized by law \$1,481,058,000 to remain available until September 30, 2021: Provided that, of this amount, not to exceed \$143,582,000 shall be available for study, planning, design and architect and engineer services, as authorized by law, unless the Secretary of the Air Force determines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of her determination and the reasons therefor.

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1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911					
3. INSTALLATION AND LOCATION CLEAR AIR FORCE BASE ALASKA					4. COMMAND AIR FORCE SPACE COMMAND			5. AREA CONSTRUCTION COST INDEX 2.44				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-15	4	6	59	0	0	0	15	92	120	296	
b. END FY	2021	4	7	27	0	0	0	15	92	120	265	
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE		11,438										
b. INVENTORY TOTAL AS OF		30-Sep-15									622,774	
c. AUTHORIZATION NOT YET IN INVENTORY											11,500	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											20,000	
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											0	
f. REMAINING DEFICIENCY											22,000	
g. GRAND TOTAL											676,274	
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)												
CATEGORY		PROJECT TITLE					SCOPE		COST (\$000)		DESIGN STATUS	
<u>CODE</u>											<u>START</u> <u>COMPLETE</u>	
730-142		Fire Station					1,920 SM		20,000		Design Build	
								TOTAL		20,000		
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)												
								TOTAL		0		
R&M UNFUNDED REQUIREMENT (\$M)								TOTAL		2.5		
10. MISSION OR MAJOR FUNCTIONS												
Clear AFS supports Active Air Force and Air National Guard space warning missions. The 13th and 213th Space Warning Squadrons provide early warning of sea-launched and intercontinental ballistic missiles to NORAD's Missile Correlation Center at Cheyenne Mountain Air Force Station, CO. Space situational awareness and tactical warning of ballistic missile attacks against the U.S. and Canada is part of the Ballistic Missile Early Warning System.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - 2021)												
a. Air Pollution											0	
b. Water Pollution											0	
c. Occupational Safety and Health											0	
d. Other Environmental											0	
								TOTAL		0		

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION CLEAR AIR FORCE STATION CLEAR AIR FORCE STATION SITE # 1 ALASKA		4. PROJECT TITLE FIRE STATION			
5. PROGRAM ELEMENT 31476	6. CATEGORY CODE 730-142	7. RPSUID/PROJECT NUMBER 1596/DXEB053005	8. PROJECT COST (\$000) 20,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
FIRE STATION					15,302
FIRE STATION		SM	1,920	7,850	(15,072)
SUSTAINABILITY AND ENERGY MEASURES		LS			(230)
SUPPORTING FACILITIES					1,820
PAVEMENTS		LS			(200)
UTILITIES		LS			(450)
SITE IMPROVEMENTS		LS			(180)
EMERGENCY GENERATOR		LS			(350)
DEMOLITION		SM	562	694	(390)
COMMUNICATIONS		LS			(250)
SUBTOTAL					17,122
CONTINGENCY (5.0%)					856
TOTAL CONTRACT COST					17,978
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					1,169
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					685
TOTAL REQUEST					19,832
TOTAL REQUEST (ROUNDED)					20,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(600
10. Description of Proposed Construction: Construct fire station facility consisting of a reinforced concrete foundation with slab on grade, concrete masonry walls with an exterior insulation finish system and a standing seam metal roof. Project includes four (4) drive-through vehicle bays, alarm and communications room, fire detection/suppression systems and all other standard fire department functions. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Potable water will be provided through a new buried concrete utilidor. Sanitary waste will be provided with lift station connected to the existing sewage system. Buried electrical service with a pad-mounted transformer will be provided. Local backup power is also included with an arctic grade generator. Demolition 562 SM.					
11. Requirement: 1920 SM Adequate: 0 SM Substandard: 562 SM					
<u>PROJECT:</u> Construct Fire Station. (Current Mission).					
<u>REQUIREMENT:</u> An energy-efficient consolidation of Fire Station, Security Forces and Mission Support functions resulting in the reduction of the active base footprint and lower associated operating costs (the Clear Optimization Plan). Provide a properly sized and configured facility to support the fire department mission at Clear AFS, consisting of fire prevention and rescue activities to					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION CLEAR AIR FORCE STATION CLEAR AIR FORCE STATION SITE # 1 ALASKA			4. PROJECT TITLE FIRE STATION	
5. PROGRAM ELEMENT 31476	6. CATEGORY CODE 730-142	7. RPSUID/PROJECT NUMBER 1596/DXEB053005	8. PROJECT COST (\$000) 20,000	
<p>include adequate sleeping, kitchen/dining, and physical training areas.</p> <p><u>CURRENT SITUATION:</u> The Clear Fire Department occupies a 1961 structure, with numerous fire safety deficiency code (including FSDC 1s) and building code violations, that is too small to adequately support required functions. There is inadequate space to provide enclosed heated parking for essential response vehicles and it lacks a drive through capability required by current station design standards. There is inadequate space available for firefighting supplies, extinguisher maintenance, washers and dryers, fire fighter protective clothing and equipment, and other functions required per National Fire Protection Associations. Living quarters within the fire station exit directly into the vehicle stalls in direct violation of safety standards. The existing facility is not sprinkled. Firefighters are currently sleeping two to a room and sleeping rooms do not meet current size requirements. There is no space available for physical training area per UFC 4-730-10. Alteration is not feasible due to extensive structural problems and expansion of the existing fire station is not possible due to its proximity to other facilities.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The fire station will continue to operate with many safety and building code violations and without adequate space to meet Air Force fire station standards. Maintenance of essential fire equipment will continue to be performed without adequate space or infrastructure resulting in more frequent replacement of equipment to ensure readiness for these personnel. Response times will be longer than necessary due to the lack of a consolidated vehicle and equipment storage center. Environmentally hazardous material spills will pose a greater threat to the area where Clear performs its mission as hazardous material response equipment is not continuously ready to respond quickly and must be collected from facilities in other parts of the installation.</p> <p><u>ADDITIONAL:</u> This project meets the scope/criteria specified in Air Force Manual 32-1084, "Facilities Requirements" and UFC 4-730-10 "Fire Station". A preliminary analysis of reasonable options (status quo, renovation, new construction) indicated only one option that would effectively meet functional requirements. Consequently, a full economic analysis was not performed. A certificate of exception has been prepared. Base Civil Engineer: Commercial (907) 585- 6421. Fire Station 1,920 SM = 20,667 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION CLEAR AIR FORCE STATION CLEAR AIR FORCE STATION SITE # 1 ALASKA		4. PROJECT TITLE FIRE STATION	
5. PROGRAM ELEMENT 31476	6. CATEGORY CODE 730-142	7. PROJECT NUMBER 1596/DXEB053005	8. PROJECT COST (\$000) 20,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			1,000
(4) Construction Contract Award			17 APR
(5) Construction Start			17 MAY
(6) Construction Completion			19 MAY
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATIONS EQUIPMENT	3080	2018	350
FURNISHINGS	3400	2018	250

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911				
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE ALASKA					4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 2.3			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	172	1707	404	4	21	0	163	654	137	3,262
b. END FY	2021	189	2479	516	4	21	0	163	654	137	4,163
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		19,789									
b. INVENTORY TOTAL AS OF		30-Sep-15									8,485,738
c. AUTHORIZATION NOT YET IN INVENTORY											45,000
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											295,600
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018 - 2021)											50,000
f. REMAINING DEFICIENCY											517,224
g. GRAND TOTAL											9,393,562
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY					COST		DESIGN STATUS		
CODE	PROJECT TITLE						SCOPE	(\$000)	START	COMPLETE	
141-181	F-35A Aircraft Weather Shelters (Sqd 1)						4,556 SM	79,500	06/15	09/16	
141-181	F-35A Aircraft Weather Shelter (Sqd 2)						4,556 SM	82,300	06/15	09/16	
171-618	F-35A ADAL FTD Facility						2,430 SM	22,100	06/15	09/16	
211-111	F-35A Hangar/Propulsion MX/Dispatch						3,046 SM	44,900	06/15	09/16	
211-111	F-35A Hangar/Squad Ops/AMU Sq #2						6,791 SM	42,700	06/15	09/16	
212-213	F-35A Missile Maintenance Facility						882 SM	12,800	06/15	09/16	
422-264	F-35A Earth Covered Magazines						1,237 SM	11,300	06/15	09/16	
							TOTAL	295,600			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)											
821-117	Repair Central Heat/Power Plant Boiler PH 4						120,000 LB	39,200			
821-117	Construct Southeast Heat Plant						858 SM	10,800			
							TOTAL	50,000			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	37.6			
10. MISSION OR MAJOR FUNCTIONS											
Eielson AFB is home to the 354th Fighter Wing. Its mission is to train, deliver, maintain, and support combat power across the globe while taking care of our people, their families, and our infrastructure; it is host to an operations group with an F-16 Squadron, and maintenance, mission support and medical groups, as well as 10 tenant units, to include Alaska's Air National Guard 168th Refueling Wing.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL	0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A ADAL FIELD TRAINING DETACHMENT (FTD) FACILITY		
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 171-618	7. RPSUID/PROJECT NUMBER 1703/FTQW170100	8. PROJECT COST (\$000) 22,100		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					16,636
RENOVATION OF BLDG 4280		SM	390	2,679	(1,045)
ADDITION TO BLDG 4280		SM	2,220	6,876	(15,265)
SUSTAINABILITY AND ENERGY MEASURES		LS			(326)
SUPPORTING FACILITIES					3,122
UTILITIES		LS			(281)
PAVEMENTS		LS			(330)
COMMUNICATIONS		LS			(250)
ENVIRONMENTAL REMEDIATION		LS			(150)
ARCHEOLOGICAL MONITORING		LS			(75)
SITE IMPROVMENTS		LS			(1,980)
DEMOLITION		SM	180	310	(56)
SUBTOTAL					19,757
CONTINGENCY (5.0%)					988
TOTAL CONTRACT COST					20,745
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					1,348
TOTAL REQUEST					22,094
TOTAL REQUEST (ROUNDED)					22,100
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(3,030.0)
10. Description of Proposed Construction: Add to and alter (ADAL) Building 4280. Cast in place footing and foundation walls; exterior walls are split face CMU utilized as a protective wainscot with insulated metal sandwich panels utilized above the wainscot. Insulated metal sandwich panels will be utilized above the second floor to match the existing building roof fascia panels. Sloped roof will be factory-finished, standing seam metal roofing with rigid insulation board. Flat roof areas will be steel decking on steel beam protected by a membrane roof assembly. The facility should be compatible with applicable DoD, Air Force, and base design standards. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 100 Tons					
11. Requirement: 2610 SM Adequate: 0 SM Substandard: 570 SM					
PROJECT: ADAL Field Training Detachment Facility for F-35A beddown. (New Mission)					
REQUIREMENT: Eielson AFB is the preferred beddown alternative for the second Main Operating Base (MOB) for the F-35A aircraft. An adequate sized FTD is required to					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A ADAL FIELD TRAINING DETACHMENT (FTD) FACILITY	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 171-618	7. RPSUID/PROJECT NUMBER 1703/FTQW170100	8. PROJECT COST (\$000) 22,100	
<p>support the maintenance training requirement for the F-35A beddown at Eielson AFB, AK. This project will renovate Building 4280 to include an addition to the existing facility to accommodate the field training requirement described in the F-35 Facility Requirements Document (FRD). The renovated facility will allow for training areas for instructor-led training, self-paced study via interactive workstations, and mock-ups of various F-35A components. The renovation and addition project will provide administrative offices, team meeting/conference rooms, student break room, and student workstations. Training rooms are required for F-35A maintenance training functions such as the Ejection Seat Mediated Training (EMST), Electronically Mediated Lectures (EML), Outer Mold Line (OML), Aerospace Ground Equipment (AGE)/Support Equipment (SE), F-135 engine maintenance, and other F-35A specific requirements.</p> <p>CURRENT SITUATION: There is no existing F-35A Field Training Detachment facility at Eielson AFB. The facilities used to support the F-16 FTD unit operates in various locations on the base and on a space available basis. The F-16 FTD unit uses 164 SM (1,763 SF) out of the 2800 SM (30,266 SF) Bldg 1353 (Weapons Release System Shop). The area currently used for the F-16 FTD needs to be returned to support the other maintenance functions of the F-35. Bldg 4280 was a former flight simulator facility, currently used as multi-purpose storage and deployed forces staging area. The facility is in good structural condition with a high-bay configuration, thereby compatible to the unique ESMT high-bay height requirement for an F-35A FTD. However, the existing facility is too small to accommodate the rest of the training and administrative support areas required for the F-35A. Therefore, an addition to Bldg 4280 is needed to accommodate the total footprint of the FTD facility requirement.</p> <p>IMPACT IF NOT PROVIDED: The F-35A FTD facility project is required to be in the FY17 program to support first aircraft arrival in 4th Qtr 2019. Training facilities are required to train maintenance personnel on how to service and maintain the F-35A. Maintainers require hands-on and classroom training to ensure proficiency in order to safely and efficiently maintain assigned aircraft. Properly trained maintainers are essential to home station aircraft operation as well as in deployed locations. The 354th FW (Eielson AFB) has insufficient facilities capable of supporting this training function. Lack of a training facility will have a negative impact on aircraft generation and readiness, directly supporting PACOM/PACAF's theater stability and postured for contingency objectives.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in AFM 32-1084, Facility Requirements. All known alternative options were considered during the development of this project. An analysis of reasonable options for accomplishing this project was completed indicating a mix of new construction and alteration to be the best solution. An Economic Analysis (EA) is being performed to verify the initial assessment result. Civil Engineer: (907) 377-5213 Field Training Detachment Facility: 2,610 SM = 28,098 SF</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A ADAL FIELD TRAINING DETACHMENT (FTD) FACILITY	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 171-618	7. PROJECT NUMBER 1703/FTQW170100	8. PROJECT COST (\$000) 22,100
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			15-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			31-MAR-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			1,326
(b) All Other Design Costs			663
(c) Total			1,989
(d) Contract			1,658
(e) In-house			332
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			20 MAR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE FIXTURES EQUIPMENT	3400	2019	530
COMMUNICATIONS	3080	2019	1,500
AV EQUIPMENT	3400	2019	1,000

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A AIRCRAFT WEATHER SHELTER SQD #1		
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 141-181	7. RPSUID/PROJECT NUMBER 1703/FTQW170112	8. PROJECT COST (\$000) 79,500		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					50,911
F-35A AIRCRAFT SHELTERS (141-181)		SM	7,189	6,943	(49,913)
SUSTAINABILITY AND ENERGY MEASURES		LS			(998)
SUPPORTING FACILITIES					20,154
SITE IMPROVEMENTS		LS			(5,069)
UTILITIES		LS			(12,694)
PAVEMENTS		LS			(2,089)
COMMUNICATIONS		LS			(77)
ENVIRONMENTAL REMEDIATION		LS			(150)
ARCHEOLOGICAL MONITORING		LS			(75)
SUBTOTAL					71,065
CONTINGENCY (5.0%)					3,553
TOTAL CONTRACT COST					74,619
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					4,850
TOTAL REQUEST					79,469
TOTAL REQUEST (ROUNDED)					79,500
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(1,300.0)
10. Description of Proposed Construction: Construct a 16-bay aircraft shelter with concrete slab foundation supported by piles; exterior walls are split face CMU utilized as a protective wainscot with insulated metal sandwich panels above the wainscot; the roof assembly is steel decking on steel beam protected by a membrane roof assembly. Work includes lightning and surge protection, and electrical grounding, to accommodate the mission of the facility to include utilities and aircraft-rated pavements. The facility should be compatible with applicable DoD, Air Force, and base design standards. The facility must also be able to withstand wind loads, seismic effects and arctic conditions as prescribed in applicable codes and design guides. Special foundations are included for arctic conditions. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. Air Conditioning: 0 Tons					
11. Requirement: 32887 SM Adequate: 18108 SM Substandard: 0 SM PROJECT: Construct F-35 Aircraft Weather Shelter for the first F-35A squadron (Sqd#1). (New Mission) REQUIREMENT: Eielson AFB is the preferred alternative to be the second Main Operating Base (MOB) for the F-35A aircraft. The 16-Bay Aircraft Shelter is required to sustain aircraft generation rates during cold weather, mitigate the					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A AIRCRAFT WEATHER SHELTER SQD #1	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 141-181	7. RPSUID/PROJECT NUMBER 1703/FTQW170112	8. PROJECT COST (\$000) 79,500	
<p>impact of arctic weather on aircraft support equipment, and maintain overall fleet health. This facility combined with the existing shelters will provide required number of covered spaces to generate sorties for one squadron of aircraft. The facility includes 16 aircraft bays and two support cores containing a mechanical and fire protection room, tool room, electrical room, communications room, break room, latrines and janitor's closet. All supporting utilities such as the utilidor system to deliver required power, water, wastewater, and steam heat to the new facility especially during harsh arctic weather. Additionally, aircraft rated pavements are required to connect facility to existing taxiways and provide aircraft throughput. F-35A aircraft delivery is scheduled to begin in June 2019.</p> <p>CURRENT SITUATION: There are not enough adequate weather shelters to house all F-35 aircraft. Maintenance operations and aircraft generation are performed in temperatures as low as -50 degrees Fahrenheit. Maintainer productivity is reduced due to the demands of work/rest schedules in accordance with AFPAM 48-151. Aircraft Shelters are needed to protect maintainers from extreme cold conditions, reduce aircraft generation time and save maintenance hours by allowing crews to work in less harsh conditions. Aircraft support equipment issues are also a concern. The fuel in support equipment can thicken in cold weather, rendering the equipment non-operational and losing valuable maintenance time. Additionally, aircraft require pre-heating in cold weather. Aircraft shelters eliminate the need for pre-heating, shortening aircraft generation times.</p> <p>IMPACT IF NOT PROVIDED: Adequate facilities will not be available to perform essential daily periodic maintenance, repair, and sortie generation for the F-35A. Equipment and personnel will be exposed to extreme weather conditions, exposing aircraft to potential damage, degrading sortie generation rates and increasing manpower requirements. Critical combat training mission operations will be severely impacted.</p> <p>ADDITIONAL: This project combined with FTQW183001: F-35A Aircraft Weather Shelter (Sqd #2) project will satisfy the total shelter requirement for the F-35 beddown. This project meets the applicable criteria/scope specified in the AFMAN 32-1084, Facility Requirements and was validated by the Lead Command. All known alternative options were considered during the development of this project. An analysis of reasonable options for accomplishing this project was completed, indicating new construction to be the best solution. An Economic Analysis (EA) is being performed to verify the initial assessment result. Base Civil Engineer: (907) 377-5213. Aircraft Shelters: 7,189 SM = 77,385 SF</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A AIRCRAFT WEATHER SHELTER SQD #1	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 141-181	7. PROJECT NUMBER 1703/FTQW170112	8. PROJECT COST (\$000) 79,500
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			15-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			31-MAR-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			4,770
(b) All Other Design Costs			2,385
(c) Total			7,155
(d) Contract			5,963
(e) In-house			1,193
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			20 MAR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHING FIXTURES EQUIPMENT	3400	2019	300
COMMUNICATION	3080	2019	1,000

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A AIRCRAFT WEATHER SHELTER SQD #2		
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 141-181	7. RPSUID/PROJECT NUMBER 1703/FTQW183001	8. PROJECT COST (\$000) 82,300		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					53,768
F-35A AIRCRAFT SHELTERS (141-181)		SM	7,590	6,943	(52,697)
SUSTAINABILITY AND ENERGY MEASURES		LS			(1,071)
SUPPORTING FACILITIES					19,790
SITE IMPROVEMENTS		LS			(3,557)
UTILITIES		LS			(6,114)
PAVEMENTS		LS			(9,533)
COMMUNICATIONS		LS			(77)
WETLAND REMEDIATION		LS			(284)
ENVIRONMENTAL REMEDIATION		LS			(150)
ARCHEOLOGICAL MONITORING		LS			(75)
SUBTOTAL					73,558
CONTINGENCY (5.0%)					3,678
TOTAL CONTRACT COST					77,236
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					5,020
TOTAL REQUEST					82,257
TOTAL REQUEST (ROUNDED)					82,300
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(1,300.0)
10. Description of Proposed Construction: Construct a 16-bay aircraft shelter with concrete slab foundation supported by piles; exterior walls are split face CMU utilized as a protective wainscot with insulated metal sandwich panels above the wainscot; the roof assembly is steel decking on steel beam protected by a membrane roof assembly. Work includes lightning and surge protection, and electrical grounding, to accommodate the mission of the facility to include utilities and aircraft-rated pavements. The facility should be compatible with applicable DoD, Air Force, and base design standards. The facility must also be able to withstand wind loads, seismic effects and arctic conditions as prescribed in applicable codes and design guides. Special foundations are included for arctic conditions. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 0 Tons					
11. Requirement: 32887 SM Adequate: 18108 SM Substandard: 0 SM					
PROJECT: Construct aircraft weather shelters for the second squadron of F-35 (Sqd #2). (New Mission)					
REQUIREMENT: Eielson AFB is the preferred alternative to be the second Main Operating Base (MOB) for the F-35A aircraft. The 16-Bay Aircraft Shelters are					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A AIRCRAFT WEATHER SHELTER SQD #2	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 141-181	7. RPSUID/PROJECT NUMBER 1703/FTQW183001	8. PROJECT COST (\$000) 82,300	
<p>required to sustain aircraft generation rates and aid in the loading of live ordnance during cold weather, mitigate the impact of arctic weather on aircraft support equipment, and maintain overall fleet health. This facility combined with existing shelters will provide required number of covered spaces to generate sorties for one squadron of aircraft. The facility includes 16 aircraft bays and two support cores containing mechanical rooms, fire protection rooms, tool rooms, electrical room, communications equipment room, telecommunications room, break room, latrines and janitor's closet. All supporting utilities such as the utilidor system to deliver required power, water, wastewater, and steam heat to the new facility especially during harsh arctic weather. Additionally, aircraft rated pavements are required to connect facility to existing taxiways and provide aircraft throughput.</p> <p>CURRENT SITUATION: There are no adequate weather shelters to accommodate the second squadron of F-35 and be able to load munitions. Maintenance operations and aircraft generation are performed in temperatures as low as -50 degrees Fahrenheit. Maintainer productivity is reduced due to the demands of work/rest schedules in accordance with AFPAM 48-151. Aircraft Shelters are needed to protect maintainers from extreme cold conditions, reduce aircraft generation time and save maintenance hours by allowing crews to work in less harsh conditions. Aircraft support equipment issues are also a concern. The fuel in support equipment can thicken in cold weather, rendering the equipment nonoperational and losing valuable maintenance time. Additionally, aircraft require pre-heating in cold weather. Aircraft shelters eliminate the need for pre-heating, shortening aircraft generation times. Finally, current live ordnance loading area is in the South Loop taxiway with no facility. Thereby, ordnance loading cannot be performed during arctic season, greatly reducing operational capability.</p> <p>IMPACT IF NOT PROVIDED: Without this facility, maintainers will be unable to perform essential daily periodic maintenance and repair negatively impacting required sortie generation. Equipment and personnel will be exposed to extreme arctic conditions, exposing aircraft to potential damage and increasing manpower requirements. Critical combat training mission operations will be severely impacted. Munition loading to the aircraft cannot be safely performed, hampering aircraft operation during 6 months of extreme weather conditions.</p> <p>ADDITIONAL: This project combined with FTQW170112: F-35A Aircraft Weather Shelter (Sqd #1) project will satisfy the total shelter requirement for the F-35 beddown. This project meets the applicable criteria/scope specified in the AFMAN 32-1084, Facility Requirements and was validated by the Lead Command. All known alternative options were considered during the development of this project. An analysis of reasonable options for accomplishing this project was completed, indicating new construction to be the best solution. An Economic Analysis (EA) is being performed to verify the initial assessment result. Base Civil Engineer: (907) 377-5213. Aircraft Shelters: 7,590 SM = 81,700 SF</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A AIRCRAFT WEATHER SHELTER SQD #2	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 141-181	7. PROJECT NUMBER 1703/FTQW183001	8. PROJECT COST (\$000) 82,300
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			15-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			31-MAR-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			1,097
(b) All Other Design Costs			549
(c) Total			1,646
(d) Contract			1,372
(e) In-house			274
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 FEB
(6) Construction Completion			20 MAR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE FIXTURES EQUIPMENT	3400	2019	300
COMMUNICATIONS	3080	2019	1,000

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A EARTH COVERED MAGAZINES		
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 422-264	7. RPSUID/PROJECT NUMBER 1703/FTQW170113	8. PROJECT COST (\$000) 11,300		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					8,203
EARTH COVERED MAGAZINES (422-264)		SM	1,226	6,562	(8,045)
SUSTAINABILITY AND ENERGY MEASURES		LS			(158)
SUPPORTING FACILITIES					1,867
UTILITIES		LS			(183)
PAVEMENTS		LS			(800)
COMMUNICATIONS		LS			(184)
SITE IMPROVEMENTS		LS			(400)
ENVIRONMENTAL REMEDIATION		LS			(200)
ARCHEOLOGICAL MONITORING		LS			(100)
SUBTOTAL					10,070
CONTINGENCY (5.0%)					504
TOTAL CONTRACT COST					10,574
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					687
TOTAL REQUEST					11,261
TOTAL REQUEST (ROUNDED)					11,300
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(30.0)
<p>10. Description of Proposed Construction: Construct six earth covered munition magazines to accommodate the mission of the facility. Construction includes precast reinforced concrete floor, walls, and ceiling, metal blast doors (7 bar), earth-covered roofing, concrete loading and unloading apron, and lightning protection system. Igloo doors will be sized to support safe loading and unloading of munitions. The igloo door track will be provided with electric resistance heating to prevent the door and track from freezing. The facility should be compatible with applicable DoD, Air Force, and base design standards. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements; UFC 1-200-02, High Performance and Sustainable Building Requirements; and the U.S. Air Force Munitions Facilities Standards Guide, Volume 1, 31 May 2004. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>					
<p>11. Requirement: 6003 SM Adequate: 0 SM Substandard: 4777 SM</p> <p>PROJECT: Construct six Earth Covered Magazines (ECMs). (New Mission)</p> <p>REQUIREMENT: Eielson is the preferred alternative to bed down the second Main Operating Base (MOB) for the F-35A aircraft. Based on the F-35 training and operation storage requirement, construct six 80-foot, standard design earth covered</p>					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A EARTH COVERED MAGAZINES	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 422-264	7. RPSUID/PROJECT NUMBER 1703/FTQW170113	8. PROJECT COST (\$000) 11,300	
<p>munition storage modules with door openings capable of safely storing the modern munitions carried by the F-35. This project supports the new mission beddown of the F-35A by providing the required munition storage. The igloos will have electric heating system to maintain required temperature for precision munitions storage. Based on the Corps of Engineers' standard design, the required area of each earth-covered magazine is 206 SM. In addition to the ECM, provide concrete pad for the loading and unloading of crated munitions. Special foundations are required to account for permafrost and areas of unstable soils. Security enhancements include an intrusion detection system.</p> <p>CURRENT SITUATION: Eielson AFB's Quarry Hill munitions storage area contains 22 munitions storage igloos that were constructed in 1955/57. Current mission requirements use 90% of existing storage capacity. In addition, previous engineering analysis has determined that the underlying permafrost layer is melting, resulting in reduced structural integrity and soil settlements to the existing igloo foundations. As a result, many of the igloos' front retaining walls are failing, as evidenced by cracking and deflection. The igloos are experiencing differential settlement due to failing sub-grade material. Operationally, the existing igloos are undersized and lack adequate door width to allow the safe handling of larger F-35A munitions. Due to the lack of capacity and degraded condition of existing igloos, the F-35 munitions storage requirement is to build 6 ECMs at Quarry Hill munitions storage area.</p> <p>IMPACT IF NOT PROVIDED: Eielson AFB's Quarry Hill munitions storage area will not have sufficient storage capability to support two squadrons of F-35A aircraft. Munitions storage personnel would be forced to use igloos that are deteriorated due to sloped floors and cracked wingwalls as an interim workaround. The igloos' inadequately sized doors would preclude the use and storage of certain types of munitions, since they are too large to be accommodated. The ECMs will provide the required munition storage for timely sortie requirement in support of PACAF's Power Projection and Theater Security line of operations to increase combat capability and readiness for contingency operations.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in AFM 32-1084, Facility Requirements. All known alternative options were considered during the development of this project. An analysis of reasonable options for accomplishing this project was completed indicating new construction to be the best solution. An Economic Analysis (EA) is being performed to verify the initial assessment result. Base Civil Engineer: (907) 377-5213. Earth Covered Magazines: 1,226 SM = 13,197 SF.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A EARTH COVERED MAGAZINES	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 422-264	7. PROJECT NUMBER 1703/FTQW170113	8. PROJECT COST (\$000) 11,300
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			15-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			31-MAR-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			339
(b) All Other Design Costs			678
(c) Total			1,017
(d) Contract			848
(e) In-house			170
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			19 SEP
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATION	3400	2018	30

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A HANGAR/PROPULSION MAINT/DISPATCH		
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 211-111	7. RPSUID/PROJECT NUMBER 1703/FTQW170106	8. PROJECT COST (\$000) 44,900		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITY					23,033
MAINTENANCE HANGAR (211-111)		SM	1,932	7,337	(14,175)
PROPULSION MAINTENANCE (211-152)		SM	372	6,890	(2,563)
CORROSION CONTROL DISPATCH (211-159)		SM	848	6,890	(5,843)
SUSTAINABILITY AND ENERGY MEASURES		LS			(452)
SUPPORTING FACILITIES					17,107
UTILITIES		LS			(11,639)
PAVEMENTS		LS			(2,161)
SITE IMPROVEMENTS		LS			(2,618)
COMMUNICATIONS		LS			(265)
WETLAND REMEDIATION		LS			(199)
ENVIRONMENTAL REMEDIATION		LS			(150)
ARCHEOLOGICAL MONITORING		LS			(75)
SUBTOTAL					40,140
CONTINGENCY (5.0%)					2,007
TOTAL CONTRACT COST					42,147
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					2,740
TOTAL REQUEST					44,887
TOTAL REQUEST (ROUNDED)					44,900
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(1,600.0)
10. Description of Proposed Construction: Construct a 4-bay F-35A Aircraft Hangar/ Propulsion Maintenance/ Corrosion Control Dispatch facility with cast in place footing and foundation walls; rigid insulation will be utilized under the slab the thermally insulate the building from the ground. Exterior walls are split face CMU utilized as a protective wainscot with insulated metal sandwich panels utilized above the wainscot. The roof assembly is steel decking on steel beam protected by a membrane roof assembly. Hangar doors are insulated conventional bi-parting rolling hangar doors that operate independent of one another to allow for isolated bay openings. The Hangar door rails will be heated to prevent icing. The facility should be compatible with applicable DoD, Air Force, and base design standards. The facility must also be able to withstand wind loads, seismic effects, and arctic conditions as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. Air Conditioning: 52 Tons					
11. Requirement: 3152 SM Adequate: 0 SM Substandard: 0 SM					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A HANGAR/PROPULSION MAINT/DISPATCH	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 211-111	7. RPSUID/PROJECT NUMBER 1703/FTQW170106	8. PROJECT COST (\$000) 44,900	
<p>PROJECT: F-35A 4-Bay Hangar/Propulsion Maint/Dispatch. (New Mission)</p> <p>REQUIREMENT: Eielson AFB is the preferred alternative to bed down the second Main Operating Base (MOB) for the F-35A aircraft. An adequately sized and configured combined consolidated 4-bay maintenance hangar, propulsion maintenance, and corrosion control dispatch is required to support beddown of the second 24 Primary Aircraft Assigned (PAA) squadron of F-35A fighters. The state-of-the-art technology and composite materials used to meet stealth mission criteria require specialized maintenance and repair procedure that must be accomplished in a secure, climate controlled work environment. Maintenance hangars provide space to support aircraft repair and inspection; engine changes, which require a minimum space of 85 ft x 55 ft; and other activities most efficiently done under cover. A propulsion maintenance area is required to perform unit-level off-equipment propulsion system maintenance. This space must be sized to accommodate alignment movement and stationary placement of propulsion maintenance trailers and allow sufficient clearances to perform maintenance. Unit level maintenance includes module and external components replacement capability post engine removal from aircraft. Dispatch/office space is required to support the personnel that will be assigned to corrosion control. Finally, all supporting utilities and infrastructure such as the utilidor system to deliver required power, water, wastewater, and steam heat to the new facility especially during harsh arctic weather. Additionally, aircraft and vehicle rated pavements are required to support the F-35 squadron maintenance operations.</p> <p>CURRENT SITUATION: There are no existing facilities available and suitable for modification that can support the engine change requirement for new aircraft. This facility is essential to meet the base's full requirement for operation and aircraft maintenance. None of the existing facilities has a crane with the height necessary for propulsion system maintenance activities. The existing corrosion control facility, or other available facilities, do not have the shop space to support the corrosion support personnel.</p> <p>IMPACT IF NOT PROVIDED: The 354th FW cannot sustain the FMC rates necessary to mobilize the aircraft to meet mission requirements. Without the hangar, engine removal/installation and effective engine maintenance cannot be performed, adversely impacting ability to mobilize strike aircraft quickly, safely, and effectively in response to operational requirements. Finally, the 354th FW will not be able to take delivery of the F-35A in any significant numbers to be effective in theater stability and contingency operations. The 354th FW has no maintenance facilities capable of supporting F-35 engine removal and installation. The hangar is required in FY17 to support first aircraft arrival in 2019.</p> <p>ADDITIONAL: This project meets the applicable criteria/scope specified in the AFMAN 32-1084 Facility Requirements dated 20 April 2012 and the F-35 Lightning II Facilities Requirement Document. An analysis of reasonable options for accomplishing this project was completed indicating new construction to be the best solution. An Economic Analysis (EA) is being performed to verify the initial assessment result. Civil Engineer: (907) 377-5213. Hangar: 1,932 SM = 20,796 SF; Propulsion Maintenance: 372 SM = 4,004 SF; Dispatch: 848 SM = 9,128 SF.</p> <p>JOINT USE CERTIFICATION:</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A HANGAR/PROPULSION MAINT/DISPATCH	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 211-111	7. RPSUID/PROJECT NUMBER 1703/FTQW170106	8. PROJECT COST (\$000) 44,900	
<p style="text-align: center;">This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force Requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A HANGAR/PROPULSION MAINT/DISPATCH	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 211-111	7. PROJECT NUMBER 1703/FTQW170106	8. PROJECT COST (\$000) 44,900
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			17-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			31-MAR-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			2,694
(b) All Other Design Costs			1,347
(c) Total			4,041
(d) Contract			3,368
(e) In-house			674
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			20 MAR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE FIXTURE EQUIPMENT	3400	2019	300
COMMUNICATIONS	3080	2019	900
AV EQUIPMENT	3400	2019	400

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A HANGAR/SQUAD OPS/AMU SQD #2		
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 211-111	7. RPSUID/PROJECT NUMBER 1703/FTQW170114	8. PROJECT COST (\$000) 42,700		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
HG, MAINT					32,686
MAINTENANCE HANGAR (211-111)		SM	1,928	7,539	(14,535)
SQUADRON OPERATIONS (141-753)		SM	1,756	4,986	(8,755)
AIRCRAFT MAINTENANCE UNIT (211-154)		SM	1,752	4,997	(8,755)
SUSTAINABILITY AND ENERGY MEASURES		LS			(641)
SUPPORTING FACILITIES					5,511
UTILITIES		LS			(1,027)
PAVEMENTS		LS			(2,016)
SITE IMPROVEMENTS		LS			(1,917)
COMMUNICATIONS		LS			(265)
WETLAND REMEDIATION		LS			(61)
ENVIRONMENTAL REMEDIATION		LS			(150)
ARCHEOLOGICAL MONITORING		LS			(75)
SUBTOTAL					38,197
CONTINGENCY (5.0%)					1,910
TOTAL CONTRACT COST					40,107
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					2,607
TOTAL REQUEST					42,714
TOTAL REQUEST (ROUNDED)					42,700
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(4,300.0)
10. Description of Proposed Construction: Construct a 4-bay F-35A Maintenance Hangar/ Squadron Operations (Squad Ops)/Aircraft Maintenance Unit (AMU) facility with reinforced concrete floor, walls, with ceiling, lightning and surge protection, and electrical grounding to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used when cost effective. The facility must also be able to withstand wind loads, seismic effects, and arctic conditions as prescribed in applicable codes and design guides. Special foundations are included for arctic conditions. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 160 Tons					
11. Requirement: 5436 SM Adequate: SM Substandard: SM					
PROJECT: F-35A Hangar/Squad Ops/AMU. (New Mission)					
REQUIREMENT: Eielson AFB is the preferred alternative to bed down the second Main Operating Base (MOB) for the F-35A aircraft. An adequately sized and configured					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A HANGAR/SQUAD OPS/AMU SQD #2	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 211-111	7. RPSUID/PROJECT NUMBER 1703/FTQW170114	8. PROJECT COST (\$000) 42,700	
<p>combined maintenance hangar, squadron operations, and aircraft maintenance unit is required to support beddown of the F-35A Squadron. The Operations portion of the facility is required to support the operations squadron and contain space for flight planning, secure air crew briefing and de-briefing areas, and training and administration of the squadron. Space must be provided for the storage, care, and issue of flight crew life support system equipment and personal space is required for changing into and out of flight clothing. Flightline maintenance is responsible for launch, service, on-equipment repair, inspection and recovery of primary mission aircraft. This facility will provide adequate area for maintenance, a tool crib, ready room, equipment issue area, classified vault storage area, equipment, and administrative spaces required to support the aircraft and the Squadron 2 mission. The maintenance hangars to support F-35A aircraft must be designed to meet minimum 10 ft clearances from wings & nose to structure and 25ft from the tail to structure requiring a clear bay 97'-2" x 98'-4" for two aircraft. The hangar will provide 4 spaces for scheduled and unscheduled maintenance. Special foundations are required to accommodate arctic conditions. Finally, all supporting utilities and infrastructure such as the utilidor system to deliver required power, water, wastewater, and steam heat to the new facility especially during harsh arctic weather. Additionally, aircraft and vehicle rated pavements are required to support the maintenance and operation functions of the second F-35 squadron.</p> <p>CURRENT SITUATION: There are no hangar facilities to accommodate the second squadron of F-35 aircraft. Maintenance activities on legacy aircraft are primarily performed in weather shelters, which are of insufficient depth to perform maintenance on an F-35A. There are no other facilities available for this purpose. This new facility is essential to meet the base's full requirement for operations and aircraft maintenance.</p> <p>IMPACT IF NOT PROVIDED: This project is required to house the second F-35A squadron. Without a hangar/sqd ops/AMU, engine removal/installation and effective engine maintenance cannot be performed, adversely impacting ability to mobilize strike aircraft quickly, safely, and effectively in response to operational requirements. In addition, aircrew and supporting MX personnel will not have a facility to perform work required to operate the second squadron of F-35As. Eielson AFB has been identified as the preferred alternative for the 2nd operational location for the F-35A. First aircraft arrival for the second squadron is expected ~August 2020. Hangar/Sq Ops/AMU facility is required prior to arrival of the first aircraft of the second squadron.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in the F-35 Lightning II Facilities Requirement Document. An analysis of reasonable options for accomplishing this project was completed, indicating new construction to be the best solution. An Economic Analysis (EA) is being performed to verify the initial assessment result. Base Civil Engineer: (907) 377-5213. Hangar: 1,928 SM = 20,753 SF; Squadron Operations: 1,756 SM = 18,901 SF; Aircraft Maintenance Unit: 1,752 SM = 18,858 SF.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A HANGAR/SQUAD OPS/AMU SQD #2	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 211-111	7. RPSUID/PROJECT NUMBER 1703/FTQW170114	8. PROJECT COST (\$000) 42,700
Requirements.			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A HANGAR/SQUAD OPS/AMU SQD #2	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 211-111	7. PROJECT NUMBER 1703/FTQW170114	8. PROJECT COST (\$000) 42,700
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			15-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			31-MAR-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			2,562
(b) All Other Design Costs			1,281
(c) Total			3,843
(d) Contract			3,203
(e) In-house			641
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			20 MAR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE FIXTURE & EQUIPMENT	3400	2019	3,000
COMMUNICATIONS	3080	2019	800
AV EQUIPMENT	3400	2019	500

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A MISSILE MAINTENANCE FACILITY		
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 212-213	7. RPSUID/PROJECT NUMBER 1703/FTQW170107	8. PROJECT COST (\$000) 12,800		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					7,893
MISSILE MAINTENANCE FACILITY (212-213)		SM	1,050	7,373	(7,742)
SUSTAINABILITY AND ENERGY MEASURES		LS			(151)
SUPPORTING FACILITIES					3,510
UTILITIES		LS			(900)
PAVEMENTS		LS			(601)
SITE IMPROVEMENTS		LS			(1,300)
COMMUNICATIONS		LS			(80)
DEMOLITION		SM	530	338	(179)
WETLANDS MITIGATION		LS			(200)
ENVIRONMENTAL REMEDIATION		LS			(175)
ARCHEOLOGICAL MONITORING		LS			(75)
SUBTOTAL					11,403
CONTINGENCY (5.0%)					570
TOTAL CONTRACT COST					11,973
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					778
TOTAL REQUEST					12,751
TOTAL REQUEST (ROUNDED)					12,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(900.0)
10. Description of Proposed Construction: Construct a missile maintenance facility with cast in place footing and foundation walls; exterior walls are split face CMU is utilized as a protective wainscot with insulated metal sandwich panels utilized above the wainscot. Missile holding areas will be cast in-place concrete walls covered with an EFIS system to mitigate heat loss through the concrete walls. The roof assembly is steel decking on steel beam protected by a membrane roof assembly. Project includes lightning and surge protection, electrical grounding, and concrete loading apron. This facility will require POV/GOV parking and supporting pavement for delivery vehicle throughput. Security enhancements include an intrusion detection and security fencing systems. All utility system needs to be protected from the arctic environment via a utiliduct system. Special foundation is required due the site being in a wetland area and to accommodate arctic conditions. The facility should be compatible with applicable DoD, Air Force, and base standards. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. Demolish one facility for 530SM as part of this project. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA			4. PROJECT TITLE F-35A MISSILE MAINTENANCE FACILITY	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 212-213	7. RPSUID/PROJECT NUMBER 1703/FTQW170107	8. PROJECT COST (\$000) 12,800	
Air Conditioning: 50 Tons				
11. Requirement: 1050 SM Adequate: SM Substandard: 530 SM				
PROJECT: Construct an F-35A Missile Maintenance Facility. (New Mission)				
REQUIREMENT: Eielson AFB is the preferred alternative to bed down the second Main Operating Base (MOB) for the F-35A aircraft. Construct a Missile Maintenance Facility to support missiles carried by F-35A aircraft. This facility accommodates missile and glide munitions assembly and disassembly inspection, testing, and repair as per AFMAN 32-1084. This facility will consist of individual drive-through work bays (4), a vault maintenance bay, an administrative area for office space with Arctic entrances, a tool room, supply and equipment storage, latrines and an outdoor covered ready missile holding area. All bays will have roll-up doors sized to support assigned missiles.				
CURRENT SITUATION: Building 1303 was constructed in 1962. The building was designed as a multi-cube munitions storage magazine, but is now used exclusively for inert storage. Constructed during the Cold War era, Bldg 1303 is located within the end-of-runway clear zone, requiring a waiver from airfield safety criteria. Bldg 1303 is in a very degraded condition and has exceeded its 50-year life. Therefore, further investment is not warranted given its location in the clear zone and facility condition. Furthermore, the F-35 missile maintenance area requirement is larger than the existing tactical missile maintenance facility.				
IMPACT IF NOT PROVIDED: The first F-35A aircraft arrival expected in July 2019. The Missile Maintenance Facility is required to support the F-35A beddown. If this project is not provided, the degraded existing facility will continue to be used for missile maintenance. The additional workload resulting from two F-35A squadrons will be accomplished in weapons bays that do not meet current standards nor have the required space. Airfield safety criteria will continue to be violated since these operations will occur within the clear zone. Munitions safety will continue to be at risk with the continued deterioration of the existing facility, and the increased quantity and type of munitions being maintained and assembled. Without an adequate missile maintenance facility, maintenance personnel will be unable to complete the inspection and maintenance of missiles that are loaded on the F-35As.				
ADDITIONAL: This project meets the criteria/scope specified in AFM 32-1084, Facility Requirements. All known alternative options were considered during the development of this project. An analysis of reasonable options for accomplishing this project was completed, indicating new construction to be the best solution. An Economic Analysis (EA) is being performed to verify the initial assessment result. Base Civil Engineer: (907) 377-5213. Missile Maintenance Facility: 1,050 SM = 11,300 SF; Demolition: 530 SM = 5,708 SF.				
JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA		4. PROJECT TITLE F-35A MISSILE MAINTENANCE FACILITY	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 212-213	7. PROJECT NUMBER 1703/FTQW170107	8. PROJECT COST (\$000) 12,800
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			15-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			31-MAR-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			768
(b) All Other Design Costs			384
(c) Total			1,152
(d) Contract			960
(e) In-house			192
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			19 SEP
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATION	3080	2018	300
FURNISHING, FIXTURE, EQUIPMENT	3400	2018	600

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911				
3. INSTALLATION AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ALASKA					4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 2.05			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	777	4396	816	0	0	0	0	0	0	5,989
b. END FY	2021	776	4389	836	0	0	0	0	0	0	6,001
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		77,996									
b. INVENTORY TOTAL AS OF		30-Sep-15									
c. AUTHORIZATION NOT YET IN INVENTORY										114,000	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)										29,000	
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)										50,000	
f. REMAINING DEFICIENCY										218,900	
g. GRAND TOTAL										9,211,900	
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY						COST		DESIGN STATUS	
<u>CODE</u>	<u>PROJECT TITLE</u>				<u>SCOPE</u>		<u>(\$000)</u>		<u>START</u>	<u>COMPLETE</u>	
141-183	Add/Alter AWACS Alert Hangar				8,384 SM		29,000		Design Build		
							TOTAL		29,000		
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS											
131-111	Consolidate Communications Facilities				5,975 SM		50,000				
							TOTAL		50,000		
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL		1,945		
10. MISSION OR MAJOR FUNCTIONS											
JBER is home to the 3rd Wing (3WG), HQ Alaskan Command, HQ U.S. Army Alaska, Alaskan NORAD Region, and 11th Air Force. Its mission provides air supremacy, surveillance, worldwide airlift, and agile combat support forces to project global power and global reach and training and readiness oversight responsibilities for Army Force Generation in Alaska. It is host to an operations group with squadrons of F-15C/D, E-3B, C-17, F-22A and C-12 aircraft, as well as 15 tenant units including the Air Force Reserve's 477th Fighter Group, among others.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - 2021)											
a. Air Pollution									0		
b. Water Pollution									0		
c. Occupational Safety and Health									0		
d. Other Environmental									0		
							TOTAL		0		

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AFB SITE #1 ALASKA			4. PROJECT TITLE ADD/ALTER AWACS ALERT HANGAR		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-183	7. RPSUID/PROJECT NUMBER 1821/FXSB982839	8. PROJECT COST (\$000) 29,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					21,166
ALERT CREW QTRS/ SQ OPS (141-459, 141-753)		SM	1,980	3,850	(7,623)
RENOVATE ALERT HANGAR (211-111)		SM	6,404	2,050	(13,128)
SUSTAINABILITY AND ENERGY MEASURES		LS			(415)
SUPPORTING FACILITIES					3,935
SITE IMPROVEMENTS		LS			(1,000)
PAVEMENTS		LS			(1,300)
UTILITIES		LS			(1,535)
CONNECTION CHARGE TO UTILITY PROVIDER		LS			(100)
SUBTOTAL					25,101
CONTINGENCY (5.0%)					1,255
TOTAL CONTRACT COST					26,356
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					1,713
TOTAL REQUEST					28,069
TOTAL REQUEST (ROUNDED)					29,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(2,750.0)
10. Description of Proposed Construction: Construct addition to and alteration of the AWACS alert hangar utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
11. Requirement: 12500 SM Adequate: 4116 SM Substandard: 6404 SM PROJECT: Add & Alter Airborne Warning and Control Systems (AWACS) Alert Hangar (Current Mission). REQUIREMENT: Due to Alaska winter weather and deicing times, alert aircraft must be housed inside to meet mission scramble requirements. To meet alert mission requirements aircraft maintenance, squadron operations and air crew quarters need to be located in the same facility. An upgrade to aircraft sheltering and maintenance hangar space as well as repairing and expanding existing squadron operations spaces and constructing missing AWACS alert crew quarters space is necessary for the 962nd Airborne Air Control Squadron (AACS) to fully accomplish its mission. Furthermore, additional squadron operations space is needed to meet					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AFB SITE #1 ALASKA			4. PROJECT TITLE ADD/ALTER AWACS ALERT HANGAR	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-183	7. RPSUID/PROJECT NUMBER 1821/FXSB982839	8. PROJECT COST (\$000) 29,000	
<p>the scheduled AWACS E-3G upgrade, which requires an additional 12 - 15 dedicated mission planning workstations.</p> <p>CURRENT SITUATION: The current situation is that existing building number 14410, aka, Hangar 8, used for the AWACS, E-3 Specifications (707 Platform) aircraft maintenance and squadron operations is unsuitable for the 962nd AACS alert mission. Hangar 8 has insufficient space for squadron operations or to house alert crews, which significantly hinder the alert mission requirement. Currently only one AWACS E-3 crew can mission plan/brief at a time due to lack of suitable space. Often two AWACS missions are flown per day and the second mission is inevitably delayed in launching. Furthermore, the existing facility has insufficient space to accommodate the planned AWACS E-3G upgrade. Hangar 8 was built in the year 1957 and is in dire need of repairs and alterations to meet basic building systems and facility standards and thus is considered overly expensive to operate and maintain.</p> <p>IMPACT IF NOT PROVIDED: The impact if this project is not provided would be a significant reduction in readiness, and could result in mission degradation of operational capability and may increase the potential for a serious mishap. Other current mission impacts: 962 AACS mission statement includes supporting the North American Aerospace Defense Command (NORAD) commitment to defense of the Alaska Region IAW AFI 11-2E-3v3. With no alert facility E-3 crews are less likely to attain the current response time for take-off of the AWACS aircraft. The lack of alert crew quarters at the hangar and the shortage of squadron operations space will continue to have a significant negative impact on mission response times and work efficiencies if this project is not provided.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". A preliminary economic analysis was performed comparing status quo, new construction, and add/alter, and add/alter was found to be most effective. A certificate of exception is being staffed for this project. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in block 9 under supporting facilities as, "Connection charge to Utility Provider". Base Civil Engineer: 907-552-3747. Add Alert Crew Quarters/Squad Ops: 1,980 SM = 21,313 SF; Renovate Alert Hangar: 6,404 SM = 68,928 SF.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ELMENDORF AFB SITE #1 ALASKA		4. PROJECT TITLE ADD/ALTER AWACS ALERT HANGAR	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-183	7. PROJECT NUMBER 1821/FXSB982839	8. PROJECT COST (\$000) 29,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			15-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			31-MAR-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			0
(b) All Other Design Costs			1,160
(c) Total			1,160
(d) Contract			0
(e) In-house			0
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			19 JUN
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
TEMPORARY OPS SPACES	3400	2017	2,000
COMMUNICATIONS EQUIP	3400	2018	150
FURNISHINGS	3400	2018	350
EQUIPMENT	3400	2018	250

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911					
3. INSTALLATION AND LOCATION LUKE AIR FORCE BASE ARIZONA				4. COMMAND AIR EDUCATION AND TRAINING COMMAND			5. AREA CONSTRUCTION COST INDEX 0.98					
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-15	317	2877	840	119	627	0	934	6232	907	12,853	
b. END FY	2021	309	2804	676	119	627	0	934	6232	907	12,608	
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE		3710										
b. INVENTORY TOTAL AS OF		30-Sep-15										1,573,231
c. AUTHORIZATION NOT YET IN INVENTORY												142,110
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)												20,000
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)												46,000
f. REMAINING DEFICIENCY												30,000
g. GRAND TOTAL												1,811,341
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)												
CATEGORY												
<u>CODE</u>	<u>PROJECT TITLE</u>				<u>SCOPE</u>	<u>COST (\$000)</u>	<u>DESIGN STATUS</u>					
141-753	F-35A Squad Ops/AMU #5				3,962 SM	20,000	Design Build					
						TOTAL	20,000					
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)												
211-154	F-35A ADAL AMU B914, Sq 6				4,519 SM	21,000						
141-753	F-35A Squad Ops #6				1,914 SM	14,000						
171-475	Construct Range and CATM Facility				420 SM	11,000						
						TOTAL	46,000					
R&M UNFUNDED REQUIREMENT (\$M)						TOTAL	62.1					
10. MISSION OR MAJOR FUNCTIONS												
LAFB is home to the largest fighter wing in the USAF, and it is the only active-duty F-16/F-35 training base in the world. The host command is the 56 FW under AETC. The wing comprises four groups, the 56th Range Management Office (RMO), and 24 squadrons, including six flying squadrons (2 F-35 & 4 F-16). There are several tenant units on base, including the 944th Fighter Wing, assigned to 10th Air Force and Air Force Reserve Command (AFRC), U.S. Marine Corps (USMC) Bulk Fuel Company C, and the U.S. Navy Reserves.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)												
a. Air Pollution											0	
b. Water Pollution											0	
c. Occupational Safety and Health											0	
d. Other Environmental											0	
						TOTAL	0					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA		4. PROJECT TITLE F-35 SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT #5			
5. PROGRAM ELEMENT 27597	6. CATEGORY CODE 141-753	7. RPSUID/PROJECT NUMBER 2517/NUEX133000	8. PROJECT COST (\$000) 20,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					12,786
SQUADRON OPERATIONS/AMU FACILITY (141-753)		SM	2,750	3,639	(10,007)
RENOVATE B913 FOR AMU SUPPORT (211-154)		SM	1,212	1,874	(2,271)
COVERED OUTDOOR SPACE (452-252)		SM	319	804	(256)
SUSTAINABILITY AND ENERGY MEASURES		LS			(251)
SUPPORTING FACILITIES					4,677
UTILITIES		LS			(799)
SITE IMPROVEMENTS		LS			(479)
PAVEMENTS		LS			(1,818)
ACCESS CONTROL		LS			(200)
COMMUNICATION REQUIREMENTS		LS			(284)
AZ TRANSACTION PRIVILEGE TAX (6%)		LS			(767)
DEMOLITION/ENVIRONMENTAL REMEDIATION		SM	975	338	(330)
SUBTOTAL					17,463
CONTINGENCY (5.0%)					873
TOTAL CONTRACT COST					18,336
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					1,045
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					699
TOTAL REQUEST					20,079
TOTAL REQUEST (ROUNDED)					20,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(3,131
10. Description of Proposed Construction: Build a combined Squadron Operations and AMU Admin facility. Work will include the construction of a sprinkler-equipped facility containing a steel-framed structure, concrete slab and foundation system, masonry block exterior walls, and standing seam metal roof. Renovate B913 for AMU Support functions. Construct covered outdoor storage area. Demolish one facility for 975 SM. The facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD Antiterrorism/Force Protection Requirements as per UFC 4-010-01.					
Air Conditioning: 160 Tons					
11. Requirement: 35395 Adequate: 31433 Substandard: 3962					
<u>PROJECT:</u> Construct an F-35A Squadron Operations/Aircraft Maintenance Unit (AMU) (New Mission)					
<u>REQUIREMENT:</u> A consolidated Squadron Operations and Maintenance facility is required to support the beddown of the Joint Strike Fighter (JSF) F-35A aircraft.					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA			4. PROJECT TITLE F-35 SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT #5	
5. PROGRAM ELEMENT 27597	6. CATEGORY CODE 141-753	7. RPSUID/PROJECT NUMBER 2517/NUEX133000	8. PROJECT COST (\$000) 20,000	
<p>The Operations portion of the facility is required to support the operations squadron and contains the space for flight planning, secure air crew briefing and debriefing areas, and training and administration of the squadron. Space must be provided for the storage, care and issue of flight crew life support system equipment and personal space is required for changing into and out of flight clothing. Flightline maintenance is semi-autonomous and responsible for the launch, service, on-equipment repair, inspection and recovery of primary mission aircraft. This facility will provide adequate area for equipment and administrative spaces required to support the aircraft and the mission of the particular squadron. The renovation of B913 will provide spaces for maintenance, a tool crib, ready room, equipment issue area, classified vault storage area. Both facilities should be operational for the F-35A squadron arrival in March 2019.</p> <p><u>CURRENT SITUATION:</u> The base lacks adequate facilities to conduct and support squadron level maintenance and operations for the F-35A mission. The operational squadrons are required to work, train, deploy, and fight as independent squadrons. The current squadron operation and maintenance facilities are geographically separated and would prevent squadrons from training as a unit. Current squadron operations and aircraft maintenance units are undersized, in poor condition, do not contain enough secure space for pilot briefings and classified parts storage and are not configured properly for the JSF training needs.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Without this project being funded and executed in 2017, the required maintenance and operations functions and personnel will not be operationally ready to receive an F-35A squadron in March of 2019. Work-arounds would not allow the squadron to train together and would significantly impact the training mission required to support the F-35A program at the Pilot Training Center.</p> <p><u>ADDITIONAL:</u> The scope and criteria for this project is contained in the Joint Strike Fighter Facility Requirements Document (FRD) developed by the Lockheed-Martin Aeronautics Company and the Eglin AFB design analysis and drawings for the JSF Squad Operations/AMU/Hangar facility. As a new weapon system, Air Force Manual 32-1084 does not adequately address the operational, training, and security requirements of the F-35A mission. An economic analysis of reasonable options comparing alternatives of status quo, renovation/reuse, addition/alteration, and new construction is being performed. Preliminary analysis indicates that a mix of new construction and renovation is the best alternative. An additional cost included in the project is an Arizona Transaction Privilege Tax of 6.2% that the State of Arizona charges all construction projects. Base Civil Engineer: (623)856-6135. Squadron Operations/AMU Admin: 2,750 SM = 29,999 SF; Covered Outdoor Storage: 319 SM = 3,434 SF. Renovation B913: 1,212 SM = 13,024SF</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA		4. PROJECT TITLE F-35 SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT #5	
5. PROGRAM ELEMENT 27597	6. CATEGORY CODE 141-753	7. PROJECT NUMBER 2517/NUEX133000	8. PROJECT COST (\$000) 20,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			840
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			19 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATIONS	3080	2018	500
AV EQUIPMENT	3400	2018	400
FF&E	3400	2018	2,231

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20150911				
3. INSTALLATION AND LOCATION EDWARDS AIR FORCE BASE CALIFORNIA				4. COMMAND AIR FORCE MATERIEL COMMAND			5. AREA CONSTRUCTION COST INDEX 1.27					
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-15	335	1013	3314				238	340	72	5,312	
b. END FY	2021	334	1209	3194				240	331	70	5,378	
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE		Acreage: 307,651 Main base: 307,517										
b. INVENTORY TOTAL AS OF		30-Sep-15 5,416,432										
c. AUTHORIZATION NOT YET IN INVENTORY		0										
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)		24,000										
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)		0										
f. REMAINING DEFICIENCY		85,000										
g. GRAND TOTAL		5,525,432										
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)												
CATEGORY							COST	DESIGN STATUS				
<u>CODE</u>	<u>PROJECT TITLE</u>						<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>			
130-142	FLIGHT LINE FIRE STATION						24,000		Design Build			
						TOTAL	24,000					
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)												
						TOTAL	0					
R&M UNFUNDED REQUIREMENT (\$M)						TOTAL	192.8					
10. MISSION OR MAJOR FUNCTIONS												
Test, evaluate and develop weapon systems to deliver war winning capability to our nation's combat forces. Air Force Flight Test Center which is responsible for flight test activities for all USAF aircraft and related avionics, flight control, and weapons systems; a test wing; an air base wing; Air Force Test Pilot School; the Propulsion Directorate of the Air Force Research Laboratory; and a space surveillance squadron.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)												
a. Air Pollution		0										
b. Water Pollution		0										
c. Occupational Safety and Health		0										
d. Other Environmental		0										
						TOTAL	0					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EDWARDS AIR FORCE BASE EDWARDS AFB SITE # 1 CALIFORNIA		4. PROJECT TITLE FLIGHT LINE FIRE STATION			
5. PROGRAM ELEMENT 72806	6. CATEGORY CODE 130-142	7. RPSUID/PROJECT NUMBER 1684/FSPM053503C	8. PROJECT COST (\$000) 24,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					17,372
FLIGHT LINE FIRE STATION (CAT CODE 130-142)		SM	3,615	4,425	(15,996)
CHEMICAL STORAGE FACILITY (CAT CODE 442-628)		SM	232	4,552	(1,056)
SUSTAINABILITY AND ENERGY MEASURES		LS			(320)
SUPPORTING FACILITIES					3,488
SITE PREPARATION		LS			(518)
PAVEMENTS		LS			(1,450)
UTILITIES		LS			(650)
COMMUNICATION		LS			(300)
BACKUP GENERATOR		LS			(125)
DEMOLITION		SM	1,368	325	(445)
SUBTOTAL					20,860
CONTINGENCY (5.0%)					1,043
TOTAL CONTRACT COST					21,903
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					1,248
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					834
TOTAL REQUEST					23,986
TOTAL REQUEST (ROUNDED)					24,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(615
<p>10. Description of Proposed Construction: Construct a facility utilizing conventional design and construction methods to accommodate the fire station requirements. The facility should be compatible with applicable DoD, AF, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. Facilities will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Include a kitchen, computer/training room, thermal energy storage (TES) system and a parking lot to accommodate 50 spaces, electronic security sensor vehicle gate, site preparations, utilities, and all other supporting facilities. Demolish 1,368 SM.</p> <p>Air Conditioning: 100 Tons</p>					
<p>11. Requirement: 3615 SM Adequate: 0 SM Substandard: 3743 SM</p> <p><u>PROJECT:</u> Flight Line Fire Station. (Current Mission)</p> <p><u>REQUIREMENT:</u> A functionally efficient facility that is adequate in size to house 20 fire fighters, their equipment, and vehicles is required to meet Edwards' fire fighting requirements. Edwards' fire/crash rescue support extends to a multitude of aircraft, such as F-16, F-18, B-52, F-22, F-35 Joint Strike Fighter, NASA's 747, to</p>					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EDWARDS AIR FORCE BASE EDWARDS AFB SITE # 1 CALIFORNIA		4. PROJECT TITLE FLIGHT LINE FIRE STATION		
5. PROGRAM ELEMENT 72806	6. CATEGORY CODE 130-142	7. RPSUID/PROJECT NUMBER 1684/FSPM053503C	8. PROJECT COST (\$000) 24,000	
<p>include flight test of aircraft from commercial contactors like Boeing's 737-800 ,737- 900 series, to the latest 787-8 for performance to wet runway break testing. The F-35 JSF program supports multi force flight testing with the Navy, Marines, Danish and UK as-well-as the Air Force. The facility requires a kitchen with a walk-in cooler to support meal preparation for assigned personnel, requires adequate bunk room space to accommodate personnel lockers within the bunk rooms. The new facility requires an annunciating system and a fire protection system. .</p> <p><u>CURRENT SITUATION:</u> The existing fire station is the primary fire station supporting airfield operations is over 50 years old and lacks adequate space in the sleeping areas. The facility has archaic infrastructure and lacks safe vehicle clearances. Modern fire department vehicles are much larger than older vehicles and do not fit safely in the existing vehicle parking bays. This facility has only one drive through vehicle stall; vehicles must be backed into the remaining stalls with only 6" of clearance on each side. A spotter is required as vehicles are "walked out" of parking bays, resulting in a 16 second delay during emergency responses, which increases the risk of loss of life or increased damage to high value aircraft. Vehicles are parked outside to reduce delays but this increases vehicle deterioration, leaving them vulnerable to freezing. Vehicles have experienced freeze damage 4 times in the last 3 years at an avg. cost of \$6K and 2.5 weeks of downtime per incident. Vehicles are parked in various hangars when space is available, but this increases response times by up to 9 minutes. The facility lacks an adequate fire system, and has been assigned a Fire Safety Deficiency (FSD) 1. The facility does not have a vehicle exhaust removal system, resulting in diesel fumes intruding into living spaces and bunk rooms. The air compressor used to fill self-contained breathing system tanks experiences frequent problems with the filters and high levels of carbon monoxide due to the lack of an exhaust removal system.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Fire fighting vehicles will continue to be parked in substandard conditions, resulting in increased vehicle degradation and longer emergency responses times. Fire fighters will continue to live and work in a substandard facility, reducing readiness and impacting morale. Longer emergency response times increase risk for all airfield operations, with the potential for loss of life and/or damage to valuable one-of-a-kind and prototype aircraft. Damage to one of these aircraft can significantly impact test programs, resulting in higher costs and delays in delivering the weapon system to the war fighters.</p> <p><u>ADDITIONAL:</u> This project complies with criteria specified in AFM 32-1084, " Facility Requirements" and UFC 4-730-10, "Fire Station Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, add/alter, and status quo operations. New construction was found to be the most cost effective option. Base Civil Engineer: (661) 277-2910. Flight Line Fire Station: 3,615 SM = 38,920 SF; Chem Storage Bldg: 232 SM = 2,498 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EDWARDS AIR FORCE BASE EDWARDS AFB SITE # 1 CALIFORNIA		4. PROJECT TITLE FLIGHT LINE FIRE STATION	
5. PROGRAM ELEMENT 72806	6. CATEGORY CODE 130-142	7. PROJECT NUMBER 1684/FSPM053503C	8. PROJECT COST (\$000) 24,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			1,200
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 APR
(6) Construction Completion			19 APR
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS	3400	2018	335
KITCHEN EQUIPMENT	3400	2018	50
DIGITAL CCTV SYSTEM	3400	2018	90
COMMUNICATIONS EQUIPMENT	3400	2018	140

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20150911				
3. INSTALLATION AND LOCATION BUCKLEY AIR FORCE BASE COLORADO				4. COMMAND AIR FORCE SPACE COMMAND			5. AREA CONSTRUCTION COST INDEX 1.03					
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-15	107	672	411	0	0	0	870	4217	1374	7,651	
b. END FY	2021	107	672	411	0	0	0	870	4217	1374	7,651	
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE		4,239										
b. INVENTORY TOTAL AS OF		30-Sep-15									1,253,140	
c. AUTHORIZATION NOT YET IN INVENTORY											0	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											13,500	
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											0	
f. REMAINING DEFICIENCY											69,500	
g. GRAND TOTAL											1,336,140	
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)												
CATEGORY												
<u>CODE</u>		<u>PROJECT TITLE</u>					<u>SCOPE</u>		<u>COST (\$000)</u>		<u>DESIGN STATUS</u>	
171-475		Small Arms Range Complex					14 FP		13,500		Design Build	
								TOTAL		13,500		
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)												
								TOTAL		0		
R&M UNFUNDED REQUIREMENT (\$M)								TOTAL		32.7		
10. MISSION OR MAJOR FUNCTIONS												
The mission of the 460th Space Wing is to provide combatant commanders with expeditionary warrior Airmen and deliver global infrared surveillance, tracking and missile warning for theater and homeland defense.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - 2021)												
a. Air Pollution											0	
b. Water Pollution											0	
c. Occupational Safety and Health											0	
d. Other Environmental											0	
								TOTAL		0		

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION BUCKLEY AIR FORCE BASE BUCKLEY AFB SITE # 1 COLORADO		4. PROJECT TITLE SMALL ARMS RANGE COMPLEX			
5. PROGRAM ELEMENT 31476	6. CATEGORY CODE 171-475	7. RPSUID/PROJECT NUMBER 1530/CRWU063008	8. PROJECT COST (\$000) 13,500		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					8,046
INDOOR SMALL ARMS RANGE (171-475)		SM	1,250	3,488	(4,360)
COMBAT ARMS TRAINING & MAINT BLDG (171-476)		SM	909	3,892	(3,538)
SUSTAINABILITY AND ENERGY MEASURES		LS			(148)
SUPPORTING FACILITIES					3,704
UTILITIES		LS			(830)
PAVEMENTS		LS			(350)
SITE IMPROVEMENTS		LS			(300)
COMMUNICATIONS		LS			(200)
DEMOLITION		SM	2,016	260	(524)
SPECIAL FOUNDATIONS FOR EXPANSIVE SOILS		LS			(525)
ENVIRONMENTAL TESTING AND REMEDIATION		LS			(975)
SUBTOTAL					11,750
CONTINGENCY (5.0%)					587
TOTAL CONTRACT COST					12,337
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					703
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					470
TOTAL REQUEST					13,511
TOTAL REQUEST (ROUNDED)					13,500)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(224
<p>10. Description of Proposed Construction: Construct an Indoor Firing Range and Combat Arms Training and Maintenance (CATM) facility. Facility includes office space for instructors, two classrooms, a weapons and range equipment maintenance area, an alarmed weapons/ammunition storage vault, restrooms, a fourteen position indoor range, space for a computerized training simulator, a cleaning/degreasing room, range supplies and equipment storage room, and a range target storage and repair room. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Demolish 2,016 SM.</p> <p>Air Conditioning: 125 Tons</p>					
<p>11. Requirement: 1250 SM Adequate: 0 SM Substandard: 2016 SM</p> <p><u>PROJECT:</u> Small Arms Range Complex. (Current Mission)</p> <p><u>REQUIREMENT:</u> An indoor firing range is required to provide training for assigned personnel to meet qualification standards. The project replaces the existing Air National Guard (ANG) constructed outdoor range complex which will be demolished as</p>					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION BUCKLEY AIR FORCE BASE BUCKLEY AFB SITE # 1 COLORADO			4. PROJECT TITLE SMALL ARMS RANGE COMPLEX	
5. PROGRAM ELEMENT 31476	6. CATEGORY CODE 171-475	7. RPSUID/PROJECT NUMBER 1530/CRWU063008	8. PROJECT COST (\$000) 13,500	
<p>part of this project. The complex must also include a Combat Arms Training and Maintenance (CATM) facility.</p> <p><u>CURRENT SITUATION:</u> The existing, outdoor, 1980's-vintage training range is in poor condition and cannot accommodate year-round training for base personnel. The range can only support M9 and M16A2 weapons, and there is no adequate onsite facility for providing CATM. Ten firing positions do not optimize CATM personnel. Training is performed in the 460 SFS Operations Building, which does not include provisions for modern training such as computerized, weapon-firing simulators. The current operations requires secured transport of the weapons. There are no sanitary facilities in the existing range facility. The facility is sited within 1,046 meters of the installation boundary with the City of Aurora, precluding M-240B/M-249AR training operations. Existing range has an Airfield Waiver and a Risk Assessment Code of 2 due to health concerns from lead exposure. Occupational Exposure Levels (OEL) are such that the range is periodically shut down or administrative constraints are required such as limiting instructor exposure to only 1,000 rounds in a day, installing portable fans to help lower OEL, and utilizing other CATMs such as the Air Force Academy, which is over an hour away and Aurora Police Department firing range for just-in-time training requirements.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Lead exposure will continue along with persistent shutdowns of the existing facility due to exposure over the OEL for lead to instructors, hindering the ability to meet mission requirements. The 460 SW will be unable to provide adequate local year-round training to Security Forces and deployable personnel. The overall impact compromises the ability of the 460 SW to maintain weapons proficiency on a timely basis, a critical requirement for providing adequate security for several space missions vital to national security and tenants such as COANG 140th Wing and Air Reserve Personnel Center. Proficiency in the new Fire Arms Training System (FATS) would not be provided within eighty miles. Keeping the mobility readiness posture within mandates will be increasingly difficult. Although soil remediation was accomplished in a past project, soil is still being exposed to contaminants, which may again need to be removed. Facility will still have an Airfield Waiver.</p> <p><u>ADDITIONAL:</u> This project meets the scope/criteria specified in Air Force Manual 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for accommodating this project indicates that only new construction will meet operational requirements. A certificate of exception has been prepared. Base Civil Engineer: (720) 847-6501. CATM Facility: 909 SM = 9,785 SF; Indoor Range: 1,250 SM = 13,455 SF</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" bases; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION BUCKLEY AIR FORCE BASE BUCKLEY AFB SITE # 1 COLORADO		4. PROJECT TITLE SMALL ARMS RANGE COMPLEX	
5. PROGRAM ELEMENT 31476	6. CATEGORY CODE 171-475	7. PROJECT NUMBER 1530/CRWU063008	8. PROJECT COST (\$000) 13,500
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			675
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 APR
(6) Construction Completion			18 OCT
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
O&M SUPPORT	3400	2018	158
COMMUNICATIONS EQUIPMENT	3080	2018	65

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD)			
3. INSTALLATION AND LOCATION DOVER AIR FORCE BASE DELAWARE					4. COMMAND AIR MOBILITY COMMAND			5. AREA CONSTRUCTION COST INDEX 1.07			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	507	4235	709	0	0	0	0	0	0	5,451
b. END FY	2021	504	4137	706	0	0	0	0	0	0	5,347
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		3400									
b. INVENTORY TOTAL AS OF		30-Sep-15									1,353,020
c. AUTHORIZATION NOT YET IN INVENTORY											0
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											39,000
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											0
f. REMAINING DEFICIENCY											0
g. GRAND TOTAL											1,392,020
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
CATEGORY						COST		DESIGN STATUS			
<u>CODE</u>		<u>PROJECT TITLE</u>				<u>SCOPE</u>		<u>COST (\$000)</u>		<u>START COMPLETE</u>	
211-179		Aircraft Maintenance Hangar				7,820 SM		39,000		Design Build	
						TOTAL		39,000			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)											
						TOTAL		0			
R&M UNFUNDED REQUIREMENT (\$M)						TOTAL		10.3			
10. MISSION OR MAJOR FUNCTIONS											
Dover AFB is home to the 436th Airlift Wing (436 AW) of the Air Mobility Command (AMC), known as the "Eagle Wing", and the AMC-gained 512th Airlift Wing (512 AW) of the Air Force Reserve Command (AFRC), referred to as the "Liberty Wing". It was the only base to solely operate the massive C-5 Galaxy, with two active flying squadrons (the 3rd Airlift Squadron, which now operates the C-17 Globemaster III, and 9th Airlift Squadron) and two Air Force Reserve flying squadrons (the 326th Airlift Squadron and the 709th Airlift Squadron).											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
						TOTAL		0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION DOVER AIR FORCE BASE DOVER AFB SITE # 1 DELAWARE		4. PROJECT TITLE AIRCRAFT MAINTENANCE HANGAR			
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 211-179	7. RPSUID/PROJECT NUMBER 169881/FJXT133000	8. PROJECT COST (\$000) 39,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					27,383
MAINTENANCE HANGAR		SM	7,820	3,433	(26,846)
SUSTAINABILITY AND ENERGY MEASURES		LS			(537)
SUPPORTING FACILITIES					6,104
UTILITIES		LS			(1,600)
PAVEMENTS		LS			(2,200)
SITE IMPROVEMENTS		LS			(700)
COMMUNICATIONS		LS			(1,450)
DEMOLITION		SM	473	220	(104)
CONNECTION CHARGE TO UTILITY PROVIDER		LS			(50)
SUBTOTAL					33,487
CONTINGENCY (5.0%)					1,674
TOTAL CONTRACT COST					35,161
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					2,004
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					1,339
TOTAL REQUEST					38,505
TOTAL REQUEST (ROUNDED)					39,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(3,375
<p>10. Description of Proposed Construction: Project will provide a single bay, full-in, fuel cell capable maintenance hangar for maintaining C-5 & C-17 aircraft utilizing conventional design and construction methods to accommodate the mission of the facility. Project will include provide fire suppression systems, all utilities, pavements, site improvements & associated support facilities. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 30 Tons</p>					
<p>11. Requirement: 57400 SM Adequate: 21980 SM Substandard: 13004 SM</p> <p><u>PROJECT:</u> Aircraft Maintenance Hangar (Current Mission)</p> <p><u>REQUIREMENT:</u> A general purpose, fuel cell capable hangar fully covered to provide space for unscheduled maintenance, scheduled inspections, tests, repairs, aircraft weighing, and technical order compliance and modifications for home station and enroute aircraft. Project includes demolition of a former Precision Measurement Equipment Laboratory (PMEL) facility.</p> <p><u>CURRENT SITUATION:</u> Dover AFB currently only has two completely covered hangars on the installation to sustain the largest C-5 workload, a demanding C-17 workload,</p>					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION DOVER AIR FORCE BASE DOVER AFB SITE # 1 DELAWARE			4. PROJECT TITLE AIRCRAFT MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 211-179	7. RPSUID/PROJECT NUMBER 169881/FJXT133000	8. PROJECT COST (\$000) 39,000	
<p>and operation of AMC's largest hauler of channel cargo. Much of the work is performed during adverse weather months. Dover AFB is authorized 7 hangar spaces. One of Dover's full-in hangars is for corrosion control and used for scheduled washes and maintenance on average 165 days/year, and the other is utilized 365 days/year for C-5 regionalized isochronal inspection process that inspects aircraft from six different Air Force bases. This leaves no full-in hangars for the many unscheduled maintenance activities necessary. While Dover has 4 nose dock hangar spaces available, the maintenance group is unable to perform tail maintenance & jacking ops in these facilities when winds exceed 25 knots which occurs on average 111 days/year (daily from Dec-Mar). Hangars must support aircraft maintenance, repair, and aircraft inspection activities that are most efficiently done under complete cover. In 2009 Dover was directed to support an additional mission to perform C-17 Home Station Check (HSC) inspections. Dover currently has no hangar available to dedicate to this new mission requirement.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Winds, temperatures, and snow cause continuing delays to aircraft maintenance. An analysis of base mission capable rates taken over three successive years identifies a decline of 10% on average during the winter months (Dec-Mar). From 2009-2014 Dover has lost 6,000 hours of lost mission capability due to weather or facility shortages. Dover AFB will continue to be deficient on adequate aircraft hangar spaces and many of Dover's maintenance operations will be impacted. Maintenance personnel will be forced to continue conducting maintenance operations exposed to harsh elements resulting in longer maintenance turn-around times and additional labor requirements. Gear retraction, touchup painting, and control surface repairs are some of the required maintenance that get delayed or not accomplished due to weather conditions.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." An economic analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was completed. It indicated that new construction was the most cost effective method of meeting operational mission requirements. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in block 9 under supporting facilities as, "Connection charge to Utility Provider". Base Civil Engineer: (302) 677-6768. Hangar: 7,820 SM = 84,176 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION DOVER AIR FORCE BASE DOVER AFB SITE # 1 DELAWARE		4. PROJECT TITLE AIRCRAFT MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 211-179	7. PROJECT NUMBER 169881/FJXT133000	8. PROJECT COST (\$000) 39,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			1,240
(4) Construction Contract Award			17 MAY
(5) Construction Start			17 JUL
(6) Construction Completion			19 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
MOBILE CRANE	3080	2018	1,950
COMMUNICATIONS	3080	2018	563
FURNITURE/FIXTURES	3400	2018	563
FALL PROTECTION SYSTEM	3080	2018	300

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYYYMMDD) 20150911					
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE FLORIDA			4. COMMAND AIR FORCE MATERIEL COMMAND			5. AREA CONSTRUCTION COST INDEX 0.86					
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	722	2630	3874				496	1020	622	9,364
b. END FY	2021	721	2589	3825				490	1000	602	9,227
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		463,360		Main Base: 11,269							
b. INVENTORY TOTAL AS OF		30-Sep-15								4,108,782	
c. AUTHORIZATION NOT YET IN INVENTORY								59,280			
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)								88,600			
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)								70,900			
f. REMAINING DEFICIENCY								394,988			
g. GRAND TOTAL								4,722,550			
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
CATEGORY						COST		DESIGN STATUS			
<u>CODE</u>		<u>PROJECT TITLE</u>		<u>SCOPE</u>		<u>(\$000)</u>		<u>START</u>		<u>COMPLETE</u>	
130-142		Flightline Fire Station		3,155 SM		13,600		Design		Build	
316-333		Advanced Munitions Technology Complex		8,394 SM		75,000		Design		Build	
						TOTAL		88,600			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)											
721-312		Dormitories (288 RM) Replace Dorm 19		9,679 SM		35,000					
721-313		F-35 STUDENT DORMITORY II (144 RM)		7,258 SM		20,000					
722-351		F-35 TECH TRAINING DINING FACILITY ADDITION		1,329 SM		4,500					
171-621		F-35 INTEGRATED TRAINING CENTER ACADEMICS BUIL		4,461 SM		11,400					
						TOTAL		70,900			
R&M UNFUNDED REQUIREMENT (\$M)						TOTAL		192.8			
10. MISSION OR MAJOR FUNCTIONS											
Eglin is an Air Force Materiel Command (AFMC) base serving as the focal point for all Air Force armaments. Eglin is responsible for the development, acquisition, testing, deployment and sustainment of all air-delivered non-nuclear weapons. The base plans, directs and conducts test and evaluation of U.S. and allied air armament, navigation and guidance systems, and command and control systems.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution								0			
b. Water Pollution								0			
c. Occupational Safety and Health								0			
d. Other Environmental								0			
						TOTAL		0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA		4. PROJECT TITLE ADVANCED MUNITIONS TECHNOLOGY COMPLEX			
5. PROGRAM ELEMENT 72806	6. CATEGORY CODE 316-333	7. RPSUID/PROJECT NUMBER 1695/FTFA043000	8. PROJECT COST (\$000) 75,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					48,255
SHARED OFFICES (311-173)		SM	1,521	3,755	(5,711)
ADVANCED DYNAMICS LAB (316-333)		SM	1,044	6,908	(7,212)
EXPLOSIVES MACHINING (316-333)		SM	376	6,036	(2,270)
CHARACTERIZATION LAB (319-946)		SM	2,887	5,498	(15,873)
EXPLOSIVES STORAGE (422-264)		SM	208	4,573	(951)
INITIATION TEST FACILITY (316-333)		SM	734	6,499	(4,770)
ADVANCED ENERGETICS (AERL) (316-333)		SM	1,219	6,284	(7,660)
ADVANCED PROCESSING (316-333)		SM	280	6,940	(1,943)
FIRE PUMP BUILDING (843-316)		SM	125	9,135	(1,142)
SUSTAINABILITY AND ENERGY MEASURES		LS			(723)
SUPPORTING FACILITIES					16,938
SITE IMPROVEMENTS		LS			(6,755)
UTILITIES		LS			(4,825)
PAVEMENTS		LS			(3,378)
COMMUNICATIONS		LS			(1,448)
SITE DEMOLITION		LS			(182)
CONNECTION CHARGE TO UTILITY PROVIDER		LS			(350)
SUBTOTAL					65,193
CONTINGENCY (5.0%)					3,260
TOTAL CONTRACT COST					68,453
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					3,902
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					2,608
TOTAL REQUEST					74,963
TOTAL REQUEST (ROUNDED)					75,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(35,000
10. Description of Proposed Construction: These facilities are required for development of nano energetic/explosive technologies and the development, integration, rapid prototyping, and fielding of advance munitions. The facility should be compatible with DoD, Air Force, and base design standards. In addition, local materials and construction standards technique shall be used when cost effective. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Facilities should meet explosives safety/DDESB (DoD Explosives Safety Board), bioenvironmental, biomedical, environmental, security/property protection and information security requirements for use of explosives and nano materials. Special					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA			4. PROJECT TITLE ADVANCED MUNITIONS TECHNOLOGY COMPLEX	
5. PROGRAM ELEMENT 72806	6. CATEGORY CODE 316-333	7. RPSUID/PROJECT NUMBER 1695/FTFA043000	8. PROJECT COST (\$000) 75,000	
<p>features include clean room lab and material prep areas, wall construction meeting substantial dividing wall requirements, frangible walls and roof, fragment protection, mitigation techniques to minimize vibration in some laboratories including totally isolated rooms inside a building, a buried basic research facility (partially buried and surround by a bin wall to support earth around and covering the facility), and lightning protection. Project includes an HVAC facility with a redesigned, energy efficient chilled water system and new central utilities primary distribution piping. Project site work includes clearing, cut/fill, grading, 7-ft chain link fence with 3 strands of barbed wire, storm water drainage, utilities, and pavements.</p> <p>Air Conditioning: 1,200 Tons</p>				
<p>11. Requirement: 22737 SM Adequate: 3181 SM Substandard: 11162 SM <u>PROJECT:</u> Advanced Munitions Technology Complex. (New Mission) <u>REQUIREMENT:</u> DoD and AF mid and far term munitions strategic plans rely heavily on Micro-Munitions requiring Advanced Energetics containing nano materials. A primary priority in the 2012 "Sustaining U.S. Global Leadership: Priorities for 21st Century Defense" includes a large focus on Anti-Access/Area Denial (A2AD) challenges and Counter Weapons of Mass Destruction Weapons, which requires the development of sub scale high speed munitions requiring Advanced Energetics containing nano and conventional materials. This project is critical to AFRL's ability to support these AF-level strategic plans. AFRL/RW is responsible for all AF air-delivered conventional munition R&D. Currently, DoD spends year \$250-300M/year on basic nano-science research. No existing US explosive facility is capable of handling or using nano explosive powders or Advanced Energetics that utilize nano materials. Existing explosives facilities don't meet bioenvironmental, environmental or safety requirements ("clean-room" type environment) for handling, processing or testing nano size materials. The Department of Defense Research and Engineering (DDR&E) Strategic Plan 2007 expects to capitalize on basic nano science research breakthroughs that are now beginning to occur for future Micro Munitions containing Advanced Energetics; however, the infrastructure required to pursue the application of nano science to Advanced Energetics does not presently exist. Scientific Advisory Board (SAB-TR-08-05, Jan 09) feedback: "Nano-energetics facilitation is needed to move forward in this important area...sufficient funding and infrastructure should be provided...we need to move out promptly." This project is critical in support of DDR&E's Advanced Energetics Thrust and National Aerospace Initiative as well as the Air Force's role as a "key participant" in new National Advanced Energetics Technology Program.</p> <p><u>CURRENT SITUATION:</u> The High Explosive Research and Development (HERD) Area mission is expanding and the existing facilities are not suitable for the expanded mission. AFRL cannot accomplish the expanded mission without these new facilities. No existing facility is available for modification/renovation to meet this critical requirement. No US facility now doing nano science research is able to store/handle/use explosive materials. No US explosives facility is capable of using nano powders at a scale necessary for a system. Facilities provided by this project are the only planned US capability able to apply current and future nano</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA			4. PROJECT TITLE ADVANCED MUNITIONS TECHNOLOGY COMPLEX	
5. PROGRAM ELEMENT 72806	6. CATEGORY CODE 316-333	7. RPSUID/PROJECT NUMBER 1695/FTFA043000	8. PROJECT COST (\$000) 75,000	
<p>science breakthrough and basic research to explosive materials/advanced energetics to allow its use in research, development, scale-up, integration, and rapid prototyping for future munitions. These facilities are needed to provide basic and applied research on combining nano particles and explosive materials to produce smaller and potentially more lethal munitions to meet the requirements of the AF and DoD.</p> <p><u>IMPACT IF NOT PROVIDED:</u> DoD and AF will delay or forfeit the ability to transition breakthrough leaps in warfighter capability stemming from sub scale high speed munitions with advanced nano energetics. This impacts the development of smaller payloads, increased load-out and mission flexibility; the potential for increased range of stand-off weapons; the development of smaller munitions critical to UAS platforms; and improving the ability to fight in the A2AD environment. Additionally, it delays or forfeits the ability to pass insensitive munition tests required by Public Law (USC Title 10, Chapter 141 2389 (7 Jan 11)). For future purchases of existing munitions, such as MK-82/MK-84 bombs, AMRAAM air-to-air missiles, and JASSM air-to-ground missiles, this will result in "no-go procurement decisions." These facilities are needed to provide safer, more advanced insensitive munitions, with significantly more energy with smaller size. Without this R&D capability, aircraft will have to complete additional sorties, potential for increased logistical support due to storing larger size munitions, and decrease ops tempo to load and transport. Without these facilities, the potential to minimize collateral damage and injury to noncombatants will not be achieved along with the ability to potentially reduce risk of explosive accidents and loss of aircraft.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction) was done. It indicates there is only one option that will meet operational requirements/satisfy statutory requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in Block 9 under Supporting Facilities as, "Connection Charge to Utility Provider". Base Civil Engineer: (850) 882-2876. Shared Offices: 1,521 SM = 16,375 SF; Advanced Dynamic Lab: 1,044 SM = 11,240 SF; Explosive Machining: 376 SM = 4,048 SF; Characterization Lab: 2,887 SM = 31,082 SF; Explosive Storage: 208 SM = 2,240 SF; Initiation Test Facility: 734 SM = 7,902 SF; Advanced Energetics (AERL): 1,219 SM = 13,124 SF; Advanced Processing: 280 SM = 3.015 SF; Fire Pump Building: 125 SM = 1,346 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements. This facility holds the potential for applications to Army and Navy research support.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA		4. PROJECT TITLE ADVANCED MUNITIONS TECHNOLOGY COMPLEX	
5. PROGRAM ELEMENT 72806	6. CATEGORY CODE 316-333	7. PROJECT NUMBER 1695/FTFA043000	8. PROJECT COST (\$000) 75,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			3,750
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 APR
(6) Construction Completion			19 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
SUPPORT EQUIPMENTS	3600	2018	35,000

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA		4. PROJECT TITLE FLIGHTLINE FIRE STATION			
5. PROGRAM ELEMENT 72806	6. CATEGORY CODE 130-142	7. RPSUID/PROJECT NUMBER 1695/FTFA033003	8. PROJECT COST (\$000) 13,600		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					8,837
FIRE STATION		SM	3,155	2,746	(8,664)
SUSTAINABILITY AND ENERGY MEASURES		LS			(173)
SUPPORTING FACILITIES					2,983
UTILITIES		LS			(650)
PAVEMENTS		LS			(805)
SITE IMPROVEMENTS		LS			(550)
DEMOLITION		SM	2,010	270	(543)
COMMUNICATIONS		LS			(150)
EMERGENCY GENERATOR		LS			(250)
CONNECTION CHARGE TO UTILITY PROVIDER		LS			(35)
SUBTOTAL					11,819
CONTINGENCY (5.0%)					591
TOTAL CONTRACT COST					12,410
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					707
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					473
TOTAL REQUEST					13,590
TOTAL REQUEST (ROUNDED)					13,600)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(636
<p>10. Description of Proposed Construction: Construct a facility utilizing conventional design and construction methods to accommodate the fire station requirements. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Includes apparatus stalls, training and testing rooms, bedrooms, rest rooms/showers, laundry area, recreation room, day room, vending area, kitchen, dining area, administration area, storage and all other supporting facilities. Facility shall be designed to withstand hurricane Category III force wind in addition to other vertical and horizontal loads. Demolish 2,010 SM.</p> <p>Air Conditioning: 100 Tons</p>					
<p>11. Requirement: 3155 SM Adequate: 0 SM Substandard: 2010 SM</p> <p><u>PROJECT:</u> Flightline Fire Station. (Current Mission).</p> <p><u>REQUIREMENT:</u> The fire department requires a facility that can consolidate operations from multiple facilities and improve response capabilities to the west side of the base. This will provide better support for customers (flying operations and base population), provide the total required space to house the operations and equipment used by the fire department and increase the quality of</p>					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA			4. PROJECT TITLE FLIGHTLINE FIRE STATION	
5. PROGRAM ELEMENT 72806	6. CATEGORY CODE 130-142	7. RPSUID/PROJECT NUMBER 1695/FTFA033003	8. PROJECT COST (\$000) 13,600	
<p>life for those personnel assigned. The location must ensure compliance with DoD response times and account for beddown requirements of the F-35 Joint Strike Fighter including aircraft ramp expansion.</p> <p><u>CURRENT SITUATION:</u> Fire Station 2 is too far from the runway; as a result, response time requirements cannot be met. Current fire stations do not meet Air Force or National Fire Protection Association (NFPA) requirements. The fire department has received several new Aircraft Rescue Firefighting (ARFF) trucks that do not fit (width/length) into station stalls. As a result, these mission critical assets sit outside exposed to harsh climatic conditions (sun, severe weather/winds, rain, freezing temperatures, and corrosive salt in the air). During hurricanes and other severe weather events vehicles are stored in multiple locations (aircraft hangars/shelters, k-spans) impacting response times and vehicle security during increased force protection conditions. Other fire department functions such as training, logistics, fire prevention and communications are located in geographically separated facilities, forcing firefighters and fire apparatus to leave fire protection districts to conduct daily activities. There have been several vehicle accidents involving fire trucks responding from Station 2 due to its location on a main thoroughfare where trucks must cross a busy road to access the flight line. Fire Station 2 has a Fire Safety Deficiency Code one (FSD-1) due to a lack of fire suppression.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The fire department will continue to operate at substandard efficiency, which is a drain on manpower, apparatus and financial resources. The life expectancy and operational capabilities of equipment left exposed to the elements will be drastically reduced. Geographical separation of facilities will continue to impact, the ability to meet mandated response times, wear and tear on vehicles, and productivity.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" and 4-730-10, "Fire Station Design Guide". An economic analysis has been prepared comparing the alternatives of new construction, add/alter, and status quo operations. New construction was found to be the most cost effective option. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in Block 9 under Supporting Facilities as, "Connection Charge to Utility Provider". Base Civil Engineer: (850) 872-2876. Flightline Fire Station: 3,156 SM = 33,980 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA		4. PROJECT TITLE FLIGHTLINE FIRE STATION	
5. PROGRAM ELEMENT 72806	6. CATEGORY CODE 130-142	7. PROJECT NUMBER 1695/FTFA033003	8. PROJECT COST (\$000) 13,600
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			680
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 APR
(6) Construction Completion			18 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATION EQUIPMENT	3400	2018	66
KITCHEN EQUIPMENT	3400	2018	104
DIGITAL CCTV SYSTEM	3400	2018	27
FURNISHINGS	3400	2018	439

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20150911			
3. INSTALLATION AND LOCATION PATRICK AIR FORCE BASE FLORIDA				4. COMMAND AIR FORCE SPACE COMMAND			5. AREA CONSTRUCTION COST INDEX 0.93				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	113	533	1408	211	561	614	39	92	592	4,163
b. END FY	2021	113	533	1408	211	561	614	39	92	592	4,163
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		2,324									
b. INVENTORY TOTAL AS OF		30-Sep-15		1,064,426							
c. AUTHORIZATION NOT YET IN INVENTORY		0									
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)		13,500									
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)		0									
f. REMAINING DEFICIENCY		12,800									
g. GRAND TOTAL		1,090,726									
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY						COST		DESIGN STATUS	
CODE	PROJECT TITLE				SCOPE			(\$000)		START	COMPLETE
130-142	Fire/Crash Rescue Station				3,218 SM			13,500		Design Build	
							TOTAL		13,500		
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
							TOTAL		0		
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL		17.7		
10. MISSION OR MAJOR FUNCTIONS											
The 45th Space Wing provides mission-ready forces for the 14th Air Force and the U.S. Strategic Command to safely execute and maintain spacelift operations and operate, maintain, and secure the Eastern Range. It supports ballistic missile test launches, aircraft tests, and other ballistic munitions evaluations. It also supports civil and commercial spacelift operations licensed by the Federal Aviation Administration and other space launch activities in accordance with National Space Policy and with the provision of public law.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution		0									
b. Water Pollution		0									
c. Occupational Safety and Health		0									
d. Other Environmental		0									
							TOTAL		0		

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION PATRICK AIR FORCE BASE PATRICK SITE # 1 FLORIDA		4. PROJECT TITLE FIRE/CRASH RESCUE STATION		
5. PROGRAM ELEMENT 31476	6. CATEGORY CODE 130-142	7. RPSUID/PROJECT NUMBER 3143/SXHT013001	8. PROJECT COST (\$000) 13,500	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
FIRE/CRASH RESCUE STATION				9,041
FIRE/CRASH RESCUE STATION	SM	3,218	2,750	(8,850)
SUSTAINABILITY AND ENERGY MEASURES	LS			(191)
SUPPORTING FACILITIES				2,693
PAVEMENTS	LS			(740)
UTILITIES	LS			(420)
SITE IMPROVEMENTS	LS			(700)
FACILITY DEMOLITION/ASBESTOS ABATEMENT	SM	1,696	270	(458)
COMMUNICATIONS SUPPORT	LS			(125)
EMERGENCY GENERATOR	LS			(250)
SUBTOTAL				11,733
CONTINGENCY (5.0%)				587
TOTAL CONTRACT COST				12,320
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				702
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				469
TOTAL REQUEST				13,492
TOTAL REQUEST (ROUNDED)				13,500)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(461
<p>10. Description of Proposed Construction: Provide drive-through truck bays, roll up doors, concrete block walls, and reinforced slab-on-grade. Construct flat built-up and sloped barrel tile roofs. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Include apparatus room, living quarters, administrative, exercise, training, recreation, supply and alarm rooms. Demolish existing fire station facilities (1,696 SM) and surrounding pavements.</p> <p>Air Conditioning: 158 Tons</p>				
<p>11. Requirement: 3218 SM Adequate: SM Substandard: 1696 SM</p> <p><u>PROJECT:</u> Construct a Fire/Crash Rescue Station. (Current Mission)</p> <p><u>REQUIREMENT:</u> This project directly supports the 45th Space Wing's operational mission and the routine mission of Air Force Space Command. A fire station is required to protect small and large frame aircraft, support operations at Cape Canaveral Air Station, respond to emergencies on Patrick AFB and at the South Housing area (located four miles South of Patrick AFB). Location must allow direct access to the flight line, South Patrick Drive, and State Road 1A. Drive-through vehicle bays, storing fire-fighting vehicles, are required for safety and to improve response time. Provide 10.03 square meters of private living space per</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION PATRICK AIR FORCE BASE PATRICK SITE # 1 FLORIDA			4. PROJECT TITLE FIRE/CRASH RESCUE STATION	
5. PROGRAM ELEMENT 31476	6. CATEGORY CODE 130-142	7. RPSUID/PROJECT NUMBER 3143/SXHT013001	8. PROJECT COST (\$000) 13,500	
<p>firefighter as well as storage and maintenance space for firefighting equipment, administrative space, dining area, exercise room, training room, and alarm room. Interior and exterior finishes will conform to the Patrick AFB Facilities Excellence Plan.</p> <p><u>CURRENT SITUATION:</u> Patrick AFB has one substandard fire station. This fire station directly supports operational flying missions, augments fire protection function at Cape Canaveral Air Station, and provides emergency response to Patrick AFB and surrounding communities. The existing facility was designed to accommodate smaller and less capable fire protection equipment and does not meet operational or quality of life requirements. The floor, on the west side vehicle bays, collapsed under the weight of a P-22 fire truck. The building sits at a low elevation and is subject to flooding during heavy rains/tropical storms. Cracks on the slab-on-grade foundation and walls are common throughout the facility. Roof and windows leak during rain storms. The heating and air conditioning system does not provide proper temperature control throughout the facility. There is no system to extract exhaust fumes from the fire trucks creating air quality health problems which is in violation of National Fire Protection Code and Occupational Safety Health Act. There is no storage for firefighting equipment; therefore, space in the stalls are being used as storage. The facility does not have a fire suppression system. A FSD of 1 has been assigned to the facility.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The Fire/Crash Rescue Station will not meet operational or quality of life requirements. More capable and heavier fire trucks will continue to break the slab-on-grade foundation, leaving portions of the facility unusable. Poor air quality will continue. Annual cost for maintenance and repair will increase.</p> <p><u>ADDITIONAL:</u> This project meets criteria/scope specified in the Air Force Manual 32-1084, "Facility Requirements." An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Base Civil Engineer: Commercial (321) 494-4041. Fire/Crash Rescue Station: 3,218 SM = 34,638 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> Mission requirements, operational considerations, and location are incompatible with use by other components.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION PATRICK AIR FORCE BASE PATRICK SITE # 1 FLORIDA		4. PROJECT TITLE FIRE/CRASH RESCUE STATION	
5. PROGRAM ELEMENT 31476	6. CATEGORY CODE 130-142	7. PROJECT NUMBER 3143/SXHT013001	8. PROJECT COST (\$000) 13,500
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			675
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 APR
(6) Construction Completion			18 AUG
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
O&M SUPPORT	3400	2018	106
COMMUNICATIONS EQUIPMENT	3080	2018	97
FURNISHINGS	3400	2018	259

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20150911				
3. INSTALLATION AND LOCATION MOODY AIR FORCE BASE GEORGIA						4. COMMAND AIR COMBAT COMMAND			5. AREA CONSTRUCTION COST INDEX 0.82			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-15	355	3278	367				101	961	122	5,184	
b. END FY	2021	355	3252	366				83	915	117	5,088	
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE		11,481										
b. INVENTORY TOTAL AS OF		30-Sep-15									566,767	
c. AUTHORIZATION NOT YET IN INVENTORY											10,245	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											30,900	
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)											0	
f. REMAINING DEFICIENCY											18,300	
g. GRAND TOTAL											626,212	
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)												
CATEGORY						SCOPE			COST (\$000)		DESIGN STATUS	
<u>CODE</u>		<u>PROJECT TITLE</u>										
141-185	Personnel Recovery 4-Bay Hangar/HMU				7,315 SM			30,900		Design Build		
								TOTAL		30,900		
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)												
								TOTAL		0		
R&M UNFUNDED REQUIREMENT (\$M)						TOTAL		26.4				
10. MISSION OR MAJOR FUNCTIONS												
Moody Air Force Base is home to the 23d Wing and the 93d Air Ground Operations Wing. The mission of the 23d Wing is to organize, train and employ combat-ready A-10, HC-130J and HH-60 aircraft and flight crews, and pararescuemen. The 93 WG, thru the 820 Base Defense Group, organizes, trains and employs force protection assets. Additionally, the 81 FS trains allied airmen to fly and maintain the A-29.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)												
a. Air Pollution											0	
b. Water Pollution											0	
c. Occupational Safety and Health											0	
d. Other Environmental											0	
								TOTAL		0		

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION MOODY AIR FORCE BASE MOODY AIR FORCE BASE SITE # 1 GEORGIA		4. PROJECT TITLE PERSONNEL RECOVERY 4-BAY HANGAR/HMU		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-185	7. RPSUID/PROJECT NUMBER 3020/QSEU083023	8. PROJECT COST (\$000) 30,900	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				21,999
MAINTENANCE HANGAR/HMU/PARTS (141-185)	SM	8,648	2,375	(20,539)
PCC AIRFIELD PAVEMENTS (112-211)	SM	3,438	287	(987)
ACC AIRFIELD PAVEMENTS (116-642)	SM	1,472	42	(62)
SUSTAINABILITY AND ENERGY MEASURES	LS			(411)
SUPPORTING FACILITIES				4,872
AIRFIELD PAVEMENTS	LS			(849)
UTILITIES	LS			(426)
SITE IMPROVEMENTS	LS			(871)
BRIDGE CRANE	EA	2	35,000	(70)
COMMUNICATIONS SUPPORT	LS			(266)
WETLANDS CREDITS	LS			(384)
DEMOLITION	SM	2,140	344	(736)
ROADS AND PARKING	LS			(507)
STORMWATER SYSTEM	LS			(763)
SUBTOTAL				26,871
CONTINGENCY (5.0%)				1,344
TOTAL CONTRACT COST				28,214
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,608
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,075
TOTAL REQUEST				30,897
TOTAL REQUEST (ROUNDED)				30,900)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,925
<p>10. Description of Proposed Construction: Provide a combined hangar/HMU facility and aircraft parts store. Work includes reinforced concrete foundation and floor slab, structural steel frame, standing seam metal roof, fire detection/protection, including high expansion foam system in the hangar bay area, utilities, landscaping, roads/parking, hangar apron-airfield access pavements, taxiway pavement, lighting and markings, communications support, and all other support as necessary. Work will include extension of installation roadways to accommodate new traffic pattern required around new apron-airfield access pavements, to include vehicle pavements, curb and gutter, marking, and lighting. Demolish existing parts store for 2,140 SM. Facilities will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements, and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 90 Tons</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION MOODY AIR FORCE BASE MOODY AIR FORCE BASE SITE # 1 GEORGIA			4. PROJECT TITLE PERSONNEL RECOVERY 4-BAY HANGAR/HMU	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-185	7. RPSUID/PROJECT NUMBER 3020/QSEU083023	8. PROJECT COST (\$000) 30,900	
<p>11. Requirement: 8648 SM Adequate: 0 SM Substandard: 7134 SM</p> <p><u>PROJECT:</u> Personnel Recovery Consolidated 4-Bay Maintenance Hangar / Helicopter Maintenance Unit (HMU) / Parts Store Facility. (Current Mission)</p> <p><u>REQUIREMENT:</u> Adequately sized and properly configured 4-Bay Maintenance Hangar/HMU, is required for phase maintenance functions and general back shops in support of the Personnel Recovery mission assigned to Moody AFB. Hangar space is required for on-going flightline and phase maintenance for assigned helicopter assets. Space will meet all facility requirements established in Unified Facilities Criteria (UFC) 3-260-01, Airfield and Heliport Planning and Design, to include airfield and hangar clearances. The associated HMU requires an organizational facility to serve as the main control point for all HMU and Phase Maintenance activities including administration, scheduling, training, briefing, and aircraft equipment/tool storage. Additionally, per AFM 32-1084, paragraph 3.1.6, the HMU will include general purpose maintenance shops for weapons storage, weapons maintenance, and other unique weapon platform systems that require off-aircraft actions and procedures. Space must be provided for the OIC, NCOIC, scheduling production, section flight chiefs and staff. Space is also required for test/support equipment and tools to support all mission taskings. Equipment includes items such as aircraft test equipment, maintenance tools, mobility pallets, and Technical Order 1H60(H)G-21 aircraft equipment such as hoists, seats, and exhaust/inlet covers. The parts store will directly support both the HH-60 HMU and the HC-130 AMU per the standards in AF Manual 32-1084, Chapter 4.3.</p> <p><u>CURRENT SITUATION:</u> Current facilities for HH-60 maintenance are WWII and Korean War era facilities in poor condition with high energy and sustainment costs. Facilities are located within 1000 ft of RWY 36L and, along with the aircraft parked on the adjoining apron, are in violation of UFC 3-260-01, Airfield and Heliport Planning and Design. The facilities and apron could not be constructed and used under current guidelines without a permanent waiver and must be programmed for replacement when they reach the end of their expected life. Hangars are well beyond their expected life - at 73 and 60 years respectively. Parked helicopters barely meet required minimum spacing for taxiing fixed wing HC-130 and A-10 aircraft, as well as larger transient aircraft. This puts maintenance personnel, aircrews, and aircraft at high risk to injury/damage from on-going maintenance/flight operations. Hangars do not meet interior clearance requirements per UFC 3-260-01. Waivers are required for continued use due to significant concerns for safe operations, and maintenance actions require additional precautions when maneuvering helicopters and working around, or on top of, the helicopters due to the proximity of structural roof trusses and columns. Rotor blade tip covers have been damaged during helicopter movement and functional checks due to lack of proper clearance. Workarounds include towing helicopters out of the hangars to avoid damage during maintenance/repairs and towed back in, with wing-walkers, sometimes several times per repair. Current facilities have inadequate fire protection systems. Additionally, they are not collocated on the flightline (approximately 1/4 mile apart), resulting in lost synergy in use of personnel and equipment to support high ops tempo for critical high demand/low density Air Force</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION MOODY AIR FORCE BASE MOODY AIR FORCE BASE SITE # 1 GEORGIA			4. PROJECT TITLE PERSONNEL RECOVERY 4-BAY HANGAR/HMU	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-185	7. RPSUID/PROJECT NUMBER 3020/QSEU083023	8. PROJECT COST (\$000) 30,900	

resources.

IMPACT IF NOT PROVIDED: Time-consuming workarounds to prevent helicopter damage due to inadequate structural clearances will continue to slow maintenance operations and restrict productivity of maintenance personnel striving to support high ops tempo. Facility operation and sustainment costs will continue to be disproportionate to the facilities' size and function. Sustained use of aprons that violate current airfield criteria will continue to expose aircraft and personnel to increased hazards due to close proximity of parked aircraft to active taxiways and runways. Overall mission effectiveness will continue to be degraded and hamper the wing's ability to prepare and meet on-going COCOM wartime commitments. Without the relocation of the parts store, the location of the hangar/HMU will require nearly double the airfield access pavements, an increased initial cost, as well as on-going costs due to manhour costs of maintenance and operational personnel due to the distance of the hangar/HMU from the parking apron. The reduced access pavement footprint will also reduce the impact to adjoining wetlands, and is therefore seen as the most viable alternative for siting.

ADDITIONAL: This project meets the applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated that there is only one option that will meet operational requirements: new construction. Therefore, no economic analysis was needed or performed, and a certificate of exception is being prepared. Base Civil Engineer: (229) 257-3601. Personnel Recovery Hangar/HMU/Parts Store: 8,648 SM = 93,052 SF.

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION MOODY AIR FORCE BASE MOODY AIR FORCE BASE SITE # 1 GEORGIA		4. PROJECT TITLE PERSONNEL RECOVERY 4-BAY HANGAR/HMU	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-185	7. PROJECT NUMBER 3020/QSEU083023	8. PROJECT COST (\$000) 30,900
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			1,236
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			19 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATION EQUIPMENT	3080	2018	275
FURNISHINGS AND FIXTURES	3400	2018	1,650

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD)			
3. INSTALLATION AND LOCATION MCCONNELL AIR FORCE BASE KANSAS					4. COMMAND AIR MOBILITY COMMAND			5. AREA CONSTRUCTION COST INDEX 0.92			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	367	2498	420	0	0	0	269	1675	474	5,703
b. END FY	2021	367	2415	414	0	0	0	269	1673	451	5,589
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		3,615									
b. INVENTORY TOTAL AS OF		30-Sep-15									1,525,284
c. AUTHORIZATION NOT YET IN INVENTORY											256,850
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											19,800
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											14,000
f. REMAINING DEFICIENCY											0
g. GRAND TOTAL											1,815,934
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY						COST		DESIGN STATUS	
CODE	PROJECT TITLE				SCOPE			(\$000)		START	COMPLETE
112-211	KC-46A REPAIR TAXIWAY DELTA				11,677 SM			5,600		Design Build	
149-962	AIR TRAFFIC CONTROL TOWER				42 VM			11,200		Design Build	
171-212	KC-46A ADAL FLIGHT SIMULATOR PH 2				3,139 SM			3,000		11/15	09/16
							TOTAL	19,800			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
171-475	COMBAT ARMS FACILITY				28 PT			14,000			
							TOTAL	14,000			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	3.0			
10. MISSION OR MAJOR FUNCTIONS											
McConnell Air Force Base is the host to the 22nd Air Refueling Wing (ARW) and home to the 184 ARW and 931 ARG. The wing's primary mission is to provide Global Reach by conducting air refueling and airlift when and wherever needed. To do this the wing is charged to develop and maintain the capability to conduct air refueling operations supporting command objectives in any part of the world, in any condition or climate.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL	0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION MCCONNELL AIR FORCE BASE MCCONNELL SITE # 1 KANSAS		4. PROJECT TITLE AIR TRAFFIC CONTROL TOWER			
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 149-962	7. RPSUID/PROJECT NUMBER 2786/PRQE105144	8. PROJECT COST (\$000) 11,200		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					5,487
AIR TRAFFIC CONTROL TOWER (149-962)		VM	42	119,447	(5,017)
TORNADO SHELTER (738-401)		SM	75	4,840	(363)
SUSTAINABILITY AND ENERGY MEASURES		LS			(108)
SUPPORTING FACILITIES					4,207
ELEVATOR		LS			(450)
EMERGENCY GENERATOR		LS			(500)
UTILITIES		LS			(995)
PAVEMENTS		LS			(280)
SITE IMPROVEMENTS		LS			(350)
SPECIAL FOUNDATION SYSTEM		LS			(300)
ACCESS ROADWAY		LS			(250)
DEMO CONTROL TOWER		VM	27	10,389	(281)
HORIZONTAL DEMO		LS			(350)
COMMUNICATIONS		LS			(451)
SUBTOTAL					9,694
CONTINGENCY (5.0%)					485
TOTAL CONTRACT COST					10,179
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					580
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					388
TOTAL REQUEST					11,147
TOTAL REQUEST (ROUNDED)					11,200)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(1,395
10. Description of Proposed Construction: Air Traffic Control Tower consisting of concrete foundation, steel framing, masonry walls, metal roof, fire detection and suppression systems, HVAC, emergency power, elevator, utilities, site improvements, and other required support. Demolish the existing control tower, Bldg 70. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. Air Conditioning: 70 Tons					
11. Requirement: 42 VM Adequate: 0 VM Substandard: 27 VM <u>PROJECT:</u> Construct a new Air Traffic Control Tower. (Current Mission) <u>REQUIREMENT:</u> Construct air traffic control tower which will consist of 10 stories and control cab. The facility will provide a modern and appropriately sized air traffic control tower required to meet Air Force and Federal Aviation					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION MCCONNELL AIR FORCE BASE MCCONNELL SITE # 1 KANSAS			4. PROJECT TITLE AIR TRAFFIC CONTROL TOWER	
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 149-962	7. RPSUID/PROJECT NUMBER 2786/PRQE105144	8. PROJECT COST (\$000) 11,200	
<p>Administration standards for safety, effectiveness, and efficiency.</p> <p><u>CURRENT SITUATION:</u> The existing control tower facility, built in 1969, requires frequent maintenance as it is rapidly deteriorating beyond the 35 year life expectancy. A facility structural wind load study was conducted in January 2010. The wind load factor of safety requires controllers to evacuate once wind speeds reach 70 mph (greater than 50 knots). New equipment requirements challenge both the capacity of the tower cab and underlying office space. The radio equipment room does not meet the National Electric Code requirement of 30 inch walk space between racks and walls. Furthermore, equipment upgrades have required equipment to be installed in existing usable office space on three floors in the tower.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Facility will require significant structural repair to the original facility. These repair costs far exceed plant replacement value. Continued evacuation of controllers when wind speeds exceed safety limits requires airspace responsibility transfer, several notifications, and Air Traffic Information Service updates. There will be a continued violation of the National Electric Code walking space requirement. The existing control tower will continue to deteriorate and user space will continue to be insufficient.</p> <p><u>ADDITIONAL:</u> This project meets applicable criteria/scope specified in Air Force Manual 32-1084." Facility Requirements." An economic analysis has been waived due to the cost of repair exceeding the plant replacement value and cost of new construction, as well as the unfeasibility of leasing. New construction is the most cost efficient solution over the life of the facility. Base Civil Engineer: (316) 759-5750. Air Traffic Control Tower: 42 Vertical Meters = 138 Vertical Feet; Tornado Shelter = 75 SM = 810 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION MCCONNELL AIR FORCE BASE MCCONNELL SITE # 1 KANSAS		4. PROJECT TITLE AIR TRAFFIC CONTROL TOWER	
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 149-962	7. PROJECT NUMBER 2786/PRQE105144	8. PROJECT COST (\$000) 11,200
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			445
(4) Construction Contract Award			17 MAR
(5) Construction Start			17 MAY
(6) Construction Completion			18 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
UNINTERRUPTIBLE POWER SUPPLY	3080	2018	20
INITIAL OPERATING EQUIPMENT	3080	2018	515
A6 COMMUNICATION (SWITCHES)	3080	2018	25
FURNITURE	3400	2018	130
USER COMMUNICATION	3080	2018	705

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION MCCONNELL AIR FORCE BASE MCCONNELL SITE # 1 KANSAS		4. PROJECT TITLE KC-46A ADAL TAXIWAY DELTA		
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 112-211	7. RPSUID/PROJECT NUMBER 2786/PRQEL75112	8. PROJECT COST (\$000) 5,600	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
ALTER TAXIWAY DELTA				2,432
TAXIWAY (112211)	SM	7,402	185	(1,369)
ASPHALT SHOULDERS (116642)	SM	4,275	90	(385)
TAXIWAY EDGE LIGHTING AND CABLING (136667)	M	2,296	274	(629)
SUSTAINABILITY AND ENERGY MEASURES	LS			(49)
SUPPORTING FACILITIES				2,425
TAXIWAY DEMOLITION	SM	7,402	144	(1,069)
SHOULDER DEMOLITION	SM	6,019	147	(887)
SITE RESTORATION	LS			(400)
AIRFIELD MARKING AND SIGNAGE	LS			(69)
SUBTOTAL				4,857
CONTINGENCY (5.0%)				243
TOTAL CONTRACT COST				5,100
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				291
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				194
TOTAL REQUEST				5,585
TOTAL REQUEST (ROUNDED)				5,600
10. Description of Proposed Construction: Replace taxiway and shoulder pavement, and install taxiway edge lighting from Taxiway Alpha to 150 feet west of Runway 19L/01R (East Runway). Repair frangibility violations and install new directional signage. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.				
11. Requirement: 15701 SM Adequate: 8299 SM Substandard: 7402 SM				
<u>PROJECT:</u> KC-46A Alter Taxiway Delta (New Mission)				
<u>REQUIREMENT:</u> The first KC-46A tanker aircraft are expected to arrive the second quarter of FY16, with a total beddown of 36 Primary Assigned Aircraft (PAA). An airfield compliant with UFC 3-260-1, Airfield and Heliport Planning and Design Criteria and UFC 3-535-01, Design Standards for Visual Air Navigation is a necessity. This project will provide a safe, maintainable and functional taxiway with paved shoulders and edge lighting meeting current UFC requirements.				
<u>CURRENT SITUATION:</u> Taxiway Delta does not comply with UFC criteria for shoulders (25 feet) and edge lighting. Existing shoulders are the remnants of a 1950,s runway and are too wide (50 feet). No taxiway edge lighting exists on this portion of the taxiway. These UFC violations limit the use of Taxiway Delta to daylight aircraft movements. The existing taxiway concrete slabs have reflective and				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION MCCONNELL AIR FORCE BASE MCCONNELL SITE # 1 KANSAS			4. PROJECT TITLE KC-46A ADAL TAXIWAY DELTA	
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 112-211	7. RPSUID/PROJECT NUMBER 2786/PRQE175112	8. PROJECT COST (\$000) 5,600	
<p>distress cracking with Pavement Condition Index (PCI) ratings of Fair to Good. Existing signage is not sufficiently lighted, frangible nor optimally located.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Taxiway Delta will rapidly deteriorate under intensive KC-46A wheel loading and Kansas freeze/thaw weather conditions. Foreign object damage will become probable as maintenance crews provide temporary repairs. Lack of consistent edge lighting clearance and unreliable lighting that is in poor condition will continue to add to the risk of flying operations, especially under adverse weather conditions. Large scale maintenance of pavement surfaces will be continuously required. Taxiway configuration that is not compliant with UFC requirements will continue to add confusion to pilots and increase the operational risk of flying operations under adverse weather conditions.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. An economic analysis of reasonable options was prepared for comparing alternatives of status quo, renovation, addition/alteration, and new construction. Alteration was found to be the best solution. Base Civil Engineer: Commercial (316) 759-5750. Taxiway: 7,402 SM = 8,852 SY Shoulder: 4,275 SM = 5,113 SY</p> <p><u>JOINT USE CERTIFICATION:</u> This is an installation utility/infrastructure project, and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION MCCONNELL AIR FORCE BASE MCCONNELL SITE # 1 KANSAS		4. PROJECT TITLE KC-46A ADAL TAXIWAY DELTA	
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 112-211	7. PROJECT NUMBER 2786/PRQE175112	8. PROJECT COST (\$000) 5,600
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - YES</p> <p>(b) Where Design Was Most Recently Used - DEVELOPED FOR KC-46A</p> <p>(3) All Other Design Costs 141</p> <p>(4) Construction Contract Award 17 MAR</p> <p>(5) Construction Start 17 APR</p> <p>(6) Construction Completion 18 SEP</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed NO</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION MCCONNELL AIR FORCE BASE MCCONNELL SITE # 1 KANSAS			4. PROJECT TITLE KC-46A ALTER FLIGHT SIMULATOR BLDGS		
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 171-212	7. RPSUID/PROJECT NUMBER 2786/PROJ165113	8. PROJECT COST (\$000) 3,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					2,366
FLT SIMLTR TNG ALTER BLDG 1092 (171212)		SM	1,362	725	(987)
FLT SIMLTR TNG ALTER BLDG 1094 (171212)		SM	1,777	750	(1,333)
SUSTAINABILITY AND ENERGY MEASURES		LS			(46)
SUPPORTING FACILITIES					323
PAVEMENTS		LS			(65)
SITE RESTORATION		LS			(70)
COMMUNICATIONS		LS			(188)
SUBTOTAL					2,689
CONTINGENCY (5.0%)					134
TOTAL CONTRACT COST					2,824
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					161
TOTAL REQUEST					2,985
TOTAL REQUEST (ROUNDED)					3,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(21,025.0)
10. Description of Proposed Construction: Remove existing KC-135 motion pads and install new KC-46A pads to support installation of two Weapon System Trainers (WST) and a Boom Operator Trainer (BOT). Upgrade electrical and HVAC simulator support systems and existing facility utility and control systems to accommodate the new simulators. Remove existing hydraulic room, utility trenches and emergency collection system. Install new concrete flooring and separate electrical and data utility trenches to support the new simulator configurations. Upgrade interior and exterior security requirements to include walls, ceilings, doors, windows, HVAC, communication and network systems. Install Distributed Mission Operations (DMO) secure network. Repair failing wall finishes, roofing and upgrade pavements where required. Upgrade severe weather shelter, mass notification systems, fire suppression and detection systems, and adjust catwalk simulator connections. Facilities alterations will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 426 Tons					
11. Requirement: 3139 SM Adequate: 1362 SM Substandard: 1777 SM					
PROJECT: KC-46A Alter Flight Simulator Buildings (New Mission)					
REQUIREMENT: The AF designated McConnell AFB as the first main operating base for the KC-46A tanker aircraft. Aircrew training simulator device deliveries will begin in first quarter FY16 and lasting through FY18. Adequately sized and configured					

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3. INSTALLATION, SITE AND LOCATION MCCONNELL AIR FORCE BASE MCCONNELL SITE # 1 KANSAS			4. PROJECT TITLE KC-46A ALTER FLIGHT SIMULATOR BLDGS	
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 171-212	7. RPSUID/PROJECT NUMBER 2786/PRQE165113	8. PROJECT COST (\$000) 3,000	
<p>Flight Training facilities are required to support operation of three Weapon System Trainers (WST), a Pilot Part Task Trainer (PPTT), two Boom Operator Trainer (BOT) devices, and associated functions to provide required aircrew training for the new KC-46A aircraft. This project alters existing KC-135 simulator bays and contiguous areas and provides secure space for two WSTs and two BOTs, parts storage, briefing rooms, classrooms, aircrew learning center, mechanical room, computer room and offices. Project also provides security enhancements to allow for handling and discussion of classified training material.</p> <p>CURRENT SITUATION: By Feb 2016 McConnell AFB will have one KC-46A WST, one KC-46A BOT and a KC-46A PTTT in place with the remaining simulator bays occupied by two KC-135 WST's and one Boom Operator Weapon System Trainer (BOWST). The KC-135 trainers need to be relocated to provide the required space for the installation of the new KC-46A simulators. There are no other facilities in the Air Force capable of providing flight simulation and boom operation training for the KC-46A weapon system.</p> <p>IMPACT IF NOT PROVIDED: The AF will be unable to provide timely aircrew training necessary to begin operation of the new KC-46A aircraft. The lack of this facility and its equipment greatly increases training costs by requiring the use of aircraft which would otherwise be assigned to operational missions for on-the-job training. This will place active KC-46A assets at higher risk of damage due to training accidents. On-the-job training will also result in higher fuel costs to the AF.</p> <p>ADDITIONAL: This project meets the applicable criteria/scope specified in Air Force Manual 32-1084 "Facility Requirements" and the KC-46A Facility Requirements Plan. An economic analysis of reasonable options for comparing alternatives of status quo, renovation, addition/alteration, and new construction was prepared. Alteration was found to be the best solution. Civil Engineer: Commercial (316) 759-5750. (Flight Training: 3,139 SM = 33,788 SF)</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION MCCONNELL AIR FORCE BASE MCCONNELL SITE # 1 KANSAS		4. PROJECT TITLE KC-46A ALTER FLIGHT SIMULATOR BLDGS	
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 171-212	7. PROJECT NUMBER 2786/PRQE165113	8. PROJECT COST (\$000) 3,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			26-NOV-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			11-MAY-16
(e) Date Design Complete			21-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			180
(b) All Other Design Costs			90
(c) Total			270
(d) Contract			225
(e) In-house			45
(4) Construction Contract Award			17 MAR
(5) Construction Start			17 MAY
(6) Construction Completion			18 SEP
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
WEAPON SYSTEM TRAINERS (WSTS)	3010	2016	15,600
BOOM OPERATOR TRAINER (BOT)	3010	2016	4,900
USER COMM (TELEPHONES)	3400	2018	50
A6 COMM (SWITCHES)	3400	2018	110
FF&E	3400	2018	365

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD)			
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE LOUISIANA					4. COMMAND AIR FORCE GLOBAL STRIKE COMMAND			5. AREA CONSTRUCTION COST INDEX 0.84			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	1116	6803	1363	49	6	1	3	6	9	9,356
b. END FY	2021	1097	6745	1324	49	6	1	3	6	9	9,240
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		21,844									
b. INVENTORY TOTAL AS OF		30-Sep-15									2,145,311
c. AUTHORIZATION NOT YET IN INVENTORY											23,500
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											21,000
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											331,000
f. REMAINING DEFICIENCY											0
g. GRAND TOTAL											2,520,811
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY						COST		DESIGN STATUS	
CODE	PROJECT TITLE				SCOPE			(\$000)		START	COMPLETE
131-111	Consolidated Communications Facility				4,515 SM			21,000		Design Build	
							TOTAL	21,000			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
215-582	Weapons Storage and Maintenance Facility Inc. 1				29,730 SM			100,000			
215-582	Weapons Storage and Maintenance Facility Inc. 2				NA SM			160,000			
215-582	Weapons Storage and Maintenance Facility Inc. 3				NA SM			71,000			
							TOTAL	331,000			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	60.0			
10. MISSION OR MAJOR FUNCTIONS											
Barksdale Air Force Base is home to the 2d Bomb Wing (BW); Headquarters, 8th Air Force; and Headquarters, Air Force Global Strike Command and also home to the 307th BW of Air Force Reserve Command. The mission of the 2d BW is to provide decisive nuclear deterrence and conventional firepower to Combatant Commanders...for global strike operations...Anytime, Anywhere! The 2d BW maintains and operates three squadrons of nuclear-capable B-52H Stratofortress aircraft. The 307th Bomb Wing is a diverse wing, flying and maintaining 20 B-52H aircraft.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL	0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION BARKSDALE AIR FORCE BASE BARKSDALE AIR FORCE BASE SITE # 1 LOUISIANA		4. PROJECT TITLE CONSOLIDATED COMMUNICATION FACILITY		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 131-111	7. RPSUID/PROJECT NUMBER 1431/AWUB095000	8. PROJECT COST (\$000) 21,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				11,424
CONSOLIDATED COMMUNICATION FACILITY	SM	4,515	2,481	(11,200)
SUSTAINABILITY AND ENERGY MEASURES	LS			(224)
SUPPORTING FACILITIES				6,840
SITE IMPROVEMENTS	LS			(1,195)
UTILITIES	LS			(796)
PAVEMENTS	LS			(635)
COMMUNICATION SUPPORT	LS			(1,960)
EMERGENCY GENERATOR	LS			(550)
DEMOLITION	SM	6,963	245	(1,705)
SUBTOTAL				18,264
CONTINGENCY (5.0%)				913
TOTAL CONTRACT COST				19,177
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,093
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				731
TOTAL REQUEST				21,001
TOTAL REQUEST (ROUNDED)				21,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(10,907
10. Description of Proposed Construction: Project will provide a two story structure with foundation, floor slabs, and sloped roof. Includes all electrical, mechanical, communications, fire detection/suppression, security alarm systems, and energy monitoring systems. Power requirement includes an emergency generator, switch gear and fuel tank. Site construction to include landscaping, parking lot, and access pavements. Project includes demolition of eight buildings (6,963 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. Air Conditioning: 350 Tons				
11. Requirement: 4515 SM Adequate: 160 SM Substandard: 6423 SM <u>PROJECT:</u> Consolidated Communications Facility. (Current Mission). <u>REQUIREMENT:</u> Adequately sized and properly configured facility to house all the functions of the 2d Communications Squadron (2CS). Functional areas include offices, electronics technician work benches, conference rooms, classrooms, records staging/storage, communications server center, Network Operations Center (NOC), COMSEC vault, and network and telephone switching equipment rooms. As part of the consolidation effort, the Command Post and Crisis Action Team (CAT) will be located in the Communications facility as well. This consolidation will provide the				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION BARKSDALE AIR FORCE BASE BARKSDALE AIR FORCE BASE SITE # 1 LOUISIANA			4. PROJECT TITLE CONSOLIDATED COMMUNICATION FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 131-111	7. RPSUID/PROJECT NUMBER 1431/AWUB095000	8. PROJECT COST (\$000) 21,000	
<p>security these two offices require, as well as supporting their large communications requirements.</p> <p><u>CURRENT SITUATION:</u> These facilities provide telephone and computer network service to over 7000 users assigned to 2d Bomb Wing, Air Force Global Strike Command, Headquarters 8th Air Force, and 307th Air Force Reserve Bomb Wing. 2 CS occupies seven buildings, all over 55-years old. This condition adversely impacts command, control, unit cohesion, and collaboration. Buildings occupied by Command Section and critical telephone and network systems do not have fire suppression systems. The age of facilities increases operations, maintenance, and energy requirements. There are continuing HVAC outages and shortages, power shortfalls, and roof leaks. Operating from multiple facilities impacts coordination and response times, and affects mission support and customer service. Response time is enhanced when infrastructure equipment, material, and personnel resources are in one location. Consolidating functions will improve manpower efficiency. The current Command Post is operating out of a converted morgue in B3433, necessitated by AFGSC bed-down. An additional primary justification for the new communication facility is an AT/FP concern with having critical communications assets within 20 feet of some of the busiest streets on the base. When we increase the Force Protection condition, these streets must be closed thus increasing traffic through base housing.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Mission critical Command and Control (C2) communications, which include the Defense Red Switch Network, Joint Worldwide Intelligence Communications System, Worldwide Secret Internet Protocol Router Network and Local Secret Internet Protocol Router Networks, will continue to be subjected to an unacceptable risk for mission degradation due to substandard force protection and limited flexibility for future growth and expansion. This translates into a limited information assurance posture and the inability to operate and maintain critical C2 assets to meet current mission requirements for the 2 BW, AFGSC, HQ 8 AF, 307th BW, USSTRATCOM, 608 AOC and 8 AF Task Force 204. These units provide direct support to the Nuclear Deterrence mission of the United States and the Air Force. As such, any failure experienced by the communications that support these units would hinder their ability to execute their missions. The 2d Communication Squadron will continue to expend valuable resources operating in separated and inadequate buildings.</p> <p><u>ADDITIONAL:</u> This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." Consultation was done with the State Historic Preservation Office (SHPO) because buildings are in the historic district, but they are not historic. The SHPO had a determination of no adverse effect. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction) indicated there is only one option that will meet operational requirements: new construction. A certificate of exception has been prepared. Base Civil Engineer: (318) 456-4856. Consolidated Communications Facility: (4,515 SM = 48,600 SF)</p> <p><u>JOINT USE CERTIFICATION:</u> Mission requirements, operational considerations, and location are incompatible with use by other components.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE BARKSDALE AIR FORCE BASE SITE # 1 LOUISIANA		4. PROJECT TITLE CONSOLIDATED COMMUNICATION FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 131-111	7. PROJECT NUMBER 1431/AWUB095000	8. PROJECT COST (\$000) 21,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			800
(4) Construction Contract Award			17 MAR
(5) Construction Start			17 APR
(6) Construction Completion			18 MAY
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATIONS EQUIP	3080	2018	10,000
FURNISHINGS	3400	2018	907

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911				
3. INSTALLATION AND LOCATION JOINT BASE ANDREWS MARYLAND					4. COMMAND AIR FORCE DISTRICT OF WASHINGTON			5. AREA CONSTRUCTION COST INDEX 1.01			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	1597	6894	2178	0	448	0	2078	1859	0	15,054
b. END FY	2021	1758	6894	2846	0	448	0	2078	1859	0	15,883
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		6,857									
b. INVENTORY TOTAL AS OF		30-Sep-15									3,678,007
c. AUTHORIZATION NOT YET IN INVENTORY											298,805
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											16,500
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											418,000
f. REMAINING DEFICIENCY											0
g. GRAND TOTAL											4,411,312
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY				COST		DESIGN STATUS			
CODE	PROJECT TITLE			SCOPE		(\$000)		START	COMPLETE		
171-475	21 Points Enclosed Firing Range			2600 SM		13,000		Design Build			
141-446	PAR - Relocate JDOC Satellite Site			352 SM		3,500		06/15	09/16		
						TOTAL	16,500				
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
730-835	Construct Security Forces Group Complex			8,175 SM		40,000					
740-884	Construct Child Development Center			3,819 SM		19,500					
131-111	Consolidated Communication Center			12,855 SM		50,000					
211-111	Presidential Aircraft Recapitalization (PAR) Complex			112,792 SM		260,000					
116-662	Land Acquisition			19 HA		17,500					
116-662	Hazardous Cargo PAD & EOD Range			LS		31,000					
						TOTAL	418,000				
R&M UNFUNDED REQUIREMENT (\$M)						TOTAL	25.0				
10. MISSION OR MAJOR FUNCTIONS											
Provide Contingency Response Capability Critical To National Security To Include Emergency Reaction Rotary-Wing Airlift For The National Capital Region, Combat-Ready Airmen To Air And Space Expeditionary Forces, And A Secure Installation And Robust Infrastructure To Support Andrews Air Force Base Organizations											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
						TOTAL	0				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON ANDREWS SITE # 1 MARYLAND		4. PROJECT TITLE CONSTRUCT 21 POINT ENCLOSED FIRING RANGE			
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 171-475	7. RPSUID/PROJECT NUMBER 1377/AJXF093000	8. PROJECT COST (\$000) 13,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					8,263
21 POINT ENCLOSED FIRING RANGE		SM	2,140	3,250	(6,955)
ADMINISTRATIVE AREA (610-129)		SM	400	2,650	(1,060)
SUSTAINABILITY AND ENERGY MEASURES		LS			(164)
RENOVATION OF EXISTING ADMIN SPACE (610-129)		SM	60	1,400	(84)
SUPPORTING FACILITIES					3,025
UTILITIES		LS			(850)
PAVEMENTS		LS			(540)
SITE IMPROVEMENTS		LS			(480)
COMMUNICATION		LS			(300)
STORM WATER MANAGEMENT		LS			(660)
CONNECTION CHARGE TO UTILITY PROVIDER		LS			(55)
CONNECTING COVERED CANOPIES		LS			(140)
SUBTOTAL					11,288
CONTINGENCY (5.0%)					564
TOTAL CONTRACT COST					11,852
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					676
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					452
TOTAL REQUEST					12,980
TOTAL REQUEST (ROUNDED)					13,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(100
10. Description of Proposed Construction: Construct a 21 point fully enclosed range with reinforced concrete foundation, a smooth steel-trowel finished reinforced concrete floor with a 2% grade from the firing line to target line, structural steel frame, fully grouted reinforced masonry walls, steel deflector plates, bullets traps, overhead baffles, utilities, communications, sound reflection reduction, dust collection, concrete pad, control tower, storage, HVAC system, exhaust system, and electrical system to support weapons training requirements of the National Capital Region (NCR). Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Includes renovation of existing admin and restrooms.					
11. Requirement: 4570 SM Adequate: 1970 SM Substandard: 60 SM					
<u>PROJECT:</u> Construct a 21 point fully enclosed Firing Range. (Current Mission).					
<u>REQUIREMENT:</u> Increased range capability that meets AF standards is needed to handle the influx of personnel requiring weapons training at Andrews AFB. A					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON ANDREWS SITE # 1 MARYLAND			4. PROJECT TITLE CONSTRUCT 21 POINT ENCLOSED FIRING RANGE	
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 171-475	7. RPSUID/PROJECT NUMBER 1377/AJXF093000	8. PROJECT COST (\$000) 13,000	
<p>properly sized, configured and fully contained small arms range is required to provide adequate training to military personnel that require certification in the use of up to 45 caliber handguns, 12 gauge shotguns, rifles up to 7.62mm.</p> <p><u>CURRENT SITUATION:</u> JB Andrews is providing weapon qualification training to approximately 8,100 personnel from NCR. Additionally, new M4/M16A2 Air Force Qualification Course further exacerbates capacity issues. New course of Fire doubles ammo use; ammo expenditures increased from 100 to 276 rounds per student. On average, training time has increased from 7 to 10 hours under the new qualification standards. Currently Andrews is the sole Air Force weapons training location in the NCR providing training for AF personnel stationed at Ft Meade, Ft Belvoir, Dahlgren, Pentagon and other military locations in the region. Daily capacity has doubled in order to push through the increased number of personnel requiring training. Weekends and after hours have also been implemented in order to maintain training. Short notice deployments make up between 25-35% of the trainees as NCR personnel are tasked often times with only a few day's notice. Per the joint basing agreement, Navy personnel will also need to use the Combat Arms Training and Maintenance (CATM) area for their personnel located in the NCR. Additionally, the Air National Guard and Air Force Reserve units located at Andrews AFB utilize the range to complete their weapons training.</p> <p><u>IMPACT IF NOT PROVIDED:</u> JB Andrews will not be able to allow Navy, Air National Guard or Air Force Reserve personnel use of the firing range facilities due to the oversized classes that are being trained daily. In addition, with current overseas operations set to continue and/or increase for AF personnel, the CATM staff will be forced to conduct 24 hour operations and possibly work weekends to accomplish the required training.</p> <p><u>ADDITIONAL:</u> This project meets the scope/criteria specified in Air Force Manual 32-1084 "Facility Requirements". An economic analysis was prepared comparing the alternatives of status quo, use of commercial firing range, and new construction. based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of the project. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in block 9 under supporting facilities as, "Connection charge to Utility Provider". Base Civil Engineer: (301) 981-7281. Firing Range : 2140 SM = 23,040 SF; Administrative Area: 400 SM = 4,310 SF; Renovation of Existing Administrative: 60 SM = 646 SF. Space: 60 SM = 646 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> Mission requirements, operational considerations, and location are incompatible with use by other components.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON ANDREWS SITE # 1 MARYLAND		4. PROJECT TITLE CONSTRUCT 21 POINT ENCLOSED FIRING RANGE	
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 171-475	7. PROJECT NUMBER 1377/AJXF093000	8. PROJECT COST (\$000) 13,000
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 650</p> <p>(4) Construction Contract Award 17 FEB</p> <p>(5) Construction Start 17 APR</p> <p>(6) Construction Completion 18 AUG</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations:</p>			
EQUIPMENT NOMENCLATURE COMMUNICATION EQUIPMENT	PROCURING APPRC 3400	FISCAL YEAR APPROPRIATED OR REQUESTED 2018	COST (\$000) 100

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON ANDREWS SITE # 1 MARYLAND			4. PROJECT TITLE PAR - JADOC SATELLITE SITE		
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 141-446	7. RPSUID/PROJECT NUMBER 1377/AJXF163001	8. PROJECT COST (\$000) 3,500		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					930
JOINT AIR DEFENSE OPERATIONS CENTER		SM	138	4,630	(639)
GENERATOR BUILDING		SM	22	4,215	(93)
ASSET PAD		SM	192	667	(128)
SUSTAINABILITY AND ENERGY MEASURES		LS			(70)
SUPPORTING FACILITIES					2,180
UTILITIES		LS			(364)
PAVEMENTS		LS			(120)
SITE IMPROVEMENTS		LS			(454)
STORM SEWER		LS			(33)
RESURFACING/PARKING LOTS		LS			(120)
ACCESS ROADS		LS			(350)
SECURITY/FENCING		LS			(325)
ACTIVE/PASSIVE BARRIERS		LS			(160)
DEMOLITION		LS			(24)
COMMUNICATIONS		LS			(150)
EMERGENCY GENERATOR		LS			(55)
CONNECTION COST TO UTILITY PROVIDER		LS			(25)
SUBTOTAL					3,110
CONTINGENCY (5.0%)					155
TOTAL CONTRACT COST					3,265
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					186
TOTAL REQUEST					3,451
TOTAL REQUEST (ROUNDED)					3,500
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(192.0)
10. Description of Proposed Construction: Construct a new operations facility for the Joint Air Defense Operations Center (JADOC) satellite site at Joint Base Andrews (JBA). The facility will be designed as permanent construction in accordance with UFC 1-200-01, "General Building Requirements". The facility includes a secure launch area, a security/support facility, appropriate GOV/POV parking areas, and access road. The launch area includes a concrete pad and a flat clear zone. The pad will need road access from the security/support facility. A security fence will encompass the support facility, clear zone, and launch pad. Ground work will be required to level out the ground for the platform, and a berm will be required to prevent slumping and erosion from the nearby stream. Trees and standing objects will be removed to allow for 30 degree vertical clearance for the launch pad. Power, water, sewer, communications and any other necessary utilities will be provided to the site and all other necessary work to provide a complete and					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON ANDREWS SITE # 1 MARYLAND			4. PROJECT TITLE PAR - JADOC SATELLITE SITE	
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 141-446	7. RPSUID/PROJECT NUMBER 1377/AJXF163001	8. PROJECT COST (\$000) 3,500	
usable product. Demolish the existing JADOC facility on base. Comply with DoD minimum antiterrorism Standards for building per UFC 4-010-01.				
11. Requirement: 352 SM Adequate: 0 SM Substandard: 88 SM				
PROJECT: Relocate Joint Air Defense Operations Center (JADOC) Satellite Site. (Current Mission)				
REQUIREMENT: The AF Strategic Basing has designated Joint Base Andrews, MD as the preferred and reasonable alternative for the Main Operating Base of the Presidential Airlift Group (PAG). As a direct result of this program, the existing JADOC satellite site at JBA will be displaced to the northeast sector of the base. New JADOC facilities include a secure launch area, a security/support facility with all necessary utilities, appropriate GOV/POV parking areas and access road. Demolish the existing JADOC facility. The selected site will require a 750 foot QD arc from the launch pad required by AFMAN 91-201, Explosives Safety Standards and DoDM 6055.09-M. The launch pad requires a 30 degree elevation clear zone from the launch pad.				
CURRENT SITUATION: The current JADOC satellite site occupies land required for other projects and must be relocated. JADOC provides ground based air defense for the National Capital Region (NCR) and JBA. Executive orders authorize Integrated Air Defense Systems (IADS) in the NCR; relocating the site away from JBA leaves portion of the NCR vulnerable to threats. The location best suited for this distance requirement is the northeast sector of the installation. The proposed location is the only feasible location within the NCR capable of meeting the JBA JADOC's mission requirements.				
IMPACT IF NOT PROVIDED: The JADOC site at JBA is part of the NCR's ground based air defenses required by Executive Orders. The relocation of JADOC is part of the Base Master Planning to facilitate the bed-down of other critical facilities.				
ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". An analysis of reasonable alternatives (status quo or new construction alternatives) was prepared. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of the project. Sustainable principles will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, "High Performance and Sustainable Building Requirements". Base Civil Engineer: (301) 981-7281. Joint Air Defense Operations Center: 138 SM = 1,486 SF; Generator Building: 22 SM = 237 SF; Asset Concrete Pad: 192 SM = 2,068 SF.				
JOINT USE CERTIFICATION: This facility is programmed for joint use with US Army; however, it is fully funded by the Air Force.				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION JOINT BASE ANDREWS-NAVAL AIR FACILITY WASHINGTON ANDREWS SITE # 1 MARYLAND		4. PROJECT TITLE PAR - JADOC SATELLITE SITE	
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 141-446	7. PROJECT NUMBER 1377/AJXF163001	8. PROJECT COST (\$000) 3,500
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			08-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			30-SEP-15
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			210
(b) All Other Design Costs			175
(c) Total			385
(d) Contract			315
(e) In-house			70
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 APR
(6) Construction Completion			18 MAY
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
SECURITY CAMERAS	3400	2018	192

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911					
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE MASSACHUSETTES					4. COMMAND AIR FORCE MATERIEL COMMAND			5. AREA CONSTRUCTION COST INDEX 1.26				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-15	551	305	1825				75	56	28	2,840	
b. END FY	2021	554	302	1771				71	55	28	2,781	
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE		846										
b. INVENTORY TOTAL AS OF		30-Sep-15										2,062,882
c. AUTHORIZATION NOT YET IN INVENTORY										13,500		
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)										20,000		
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)										235,965		
f. REMAINING DEFICIENCY										92,221		
g. GRAND TOTAL										2,424,568		
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)												
CATEGORY												
<u>CODE</u>	<u>PROJECT TITLE</u>					<u>SCOPE</u>	<u>COST (\$000)</u>	<u>DESIGN STATUS</u>		<u>START</u>	<u>COMPLETE</u>	
317-315	SYSTEM MANAGEMENT ENGINEERING FACILITY					3,637 SM	20,000	Design Build				
						TOTAL	20,000					
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)												
730-832	Construct Vandenberg Gate Complex					408 SM	10,965					
317-315	Advanced Microelectronics Integration Facility (MIT - LAB)					15,017 SM	225,000					
						TOTAL	235,965					
R&M UNFUNDED REQUIREMENT (\$M)						TOTAL	33.0					
10. MISSION OR MAJOR FUNCTIONS												
AFLCMC provides the latest in command and control and information systems for various weapons platforms including the E-3 AWACS and E-8 Joint STARS; an Air Force Research Laboratory (AFRL) research site location for the space vehicles directorate; an air base group and recruiting group.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)												
a. Air Pollution										0		
b. Water Pollution										0		
c. Occupational Safety and Health										0		
d. Other Environmental										0		
						TOTAL	0					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE SYSTEM MANAGEMENT ENGINEERING FACILITY			
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 317-315	7. RPSUID/PROJECT NUMBER 2487/MXRD073000	8. PROJECT COST (\$000) 20,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					12,986
SYSTEM MANAGEMENT ENGINEERING FACILITY		SM	3,637	3,500	(12,730)
SUSTAINABILITY AND ENERGY MEASUREMENTS		LS			(256)
SUPPORTING FACILITIES					4,408
UTILITIES		LS			(850)
PAVEMENTS		LS			(650)
SITE IMPROVEMENTS		LS			(570)
COMMUNICATIONS		LS			(250)
DEMOLITION		SM	6,961	300	(2,088)
SUBTOTAL					17,394
CONTINGENCY (5.0%)					870
TOTAL CONTRACT COST					18,263
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					1,041
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					696
TOTAL REQUEST					20,000
TOTAL REQUEST (ROUNDED)					20,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(1,200
<p>10. Description of Proposed Construction: Construct a facility utilizing economical design and construction methods compatible with applicable DoD, Air Force, and base design standards. Includes new access road, landscaping, site improvements, and all other support facilities. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Demolish 6,961 SM.</p> <p>Air Conditioning: 80 Tons</p>					
<p>11. Requirement: 3637 SM Adequate: 0 SM Substandard: 6961 SM</p> <p><u>PROJECT:</u> System Management Engineering Facility. (Current Mission)</p> <p><u>REQUIREMENT:</u> Consolidate the Air Force Life Cycle Management Center (AFLCMC), Business and Enterprise Systems Directorate's, Air Force Integrated Personnel & Pay System (AFIPPS) Program located in a geographically isolated area of the base (B1102C) to B1604 allowing them to be located within the AFLCMC district and to divest a 6,961 SM facility that is not economically repairable.</p> <p><u>CURRENT SITUATION:</u> Building B1102C was constructed in 1956 and is beyond economic repair. The existing heating, ventilation and air conditioning (HVAC) system is antiquated, inefficient, and prone to failure. The old pneumatic controls limit the Civil Engineering Squadron's ability to provide proper HVAC regulation. The existing steam and condensate system used for heating is inefficient, in-effective,</p>					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS			4. PROJECT TITLE SYSTEM MANAGEMENT ENGINEERING FACILITY	
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 317-315	7. RPSUID/PROJECT NUMBER 2487/MXRD073000	8. PROJECT COST (\$000) 20,000	
<p>and contains asbestos in the piping system. The existing windows are original to the building and have never been replaced. Many of the windows have cracks and have been sealed by means of duct tape. The existing window caulking contains asbestos so it will be expensive to replace the windows because the caulking will have to be abated. The existing flooring in the building needs to be replaced and likely contains asbestos as well. The building does not comply with the Americans with Disabilities Act (ADA). There are no handicap accessible ramps in the building and the only elevator access is a failing freight elevator. The foundation and vertical columns for the building also likely contain asbestos and do not meet current seismic codes. The building's electrical distribution network cannot support all the printers, cubicles, and computers required to support AFLCMC's AFFIPS mission.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The air Force will continue to pay expensive maintenance costs and countless man hours will continue to be wasted maintaining an already deteriorated building. AFIPPS program personnel will continue to spend significant time and effort resolving building issues rather than providing mission support resulting in an overall loss of organization efficiency. Current and additional mission assignments will not be adequately supported due to building constraints. The building will continue to deteriorate and Life Safety Code requirements will not be met.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in the Air Force Manual 32-1084, "Facility Requirements". An economic analysis of reasonable options was conducted, new construction was found to most cost effective over the life of the project. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance UFC 1-200-02. Base Civil Engineer: 781-225-2999. System Management Engineering Facility: 3,637 SM - 39,314 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE HANSCOM AFB SITE # 1 MASSACHUSETTS		4. PROJECT TITLE SYSTEM MANAGEMENT ENGINEERING FACILITY	
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 317-315	7. PROJECT NUMBER 2487/MXRD073000	8. PROJECT COST (\$000) 20,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			1,000
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 APR
(6) Construction Completion			18 DEC
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS	3400	2018	150
AV EQUIPMENT	3080	2018	50
COMMUNICATIONS EQUIPMENT	3080	2018	1,000

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD)			
3. INSTALLATION AND LOCATION MALMSTROM AIR FORCE BASE MONTANA				4. COMMAND AIR FORCE GLOBAL STRIKE COMMAND			5. AREA CONSTRUCTION COST INDEX 1.1				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	449	2617	481	0	0	0	462	3053	647	7,709
b. END FY	2021	360	2191	479	0	0	0	373	2625	645	6,673
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		3,627									
b. INVENTORY TOTAL AS OF		30-Sep-15									3,181,296
c. AUTHORIZATION NOT YET IN INVENTORY											31,199
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											14,600
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											110,750
f. REMAINING DEFICIENCY											0
g. GRAND TOTAL											3,337,845
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY						COST		DESIGN STATUS	
<u>CODE</u>	<u>PROJECT TITLE</u>				<u>SCOPE</u>			<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>	
212-216	Relocate Missile Maintenance Facility				4,047 SM			14,600	06/15	09/16	
							TOTAL	14,600			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
215-582	Weapons Storage Facility				8,065 SM			95,000			
730-142	Construct Fire Station				1,832 SM			4,150			
740-674	Physical Fitness Center				2,620 SM			11,600			
							TOTAL	110,750			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	44.0			
10. MISSION OR MAJOR FUNCTIONS											
Malmstrom Air Force Base is home to the 341st Missile Wing (MW) of Air Force Global Strike Command and also home to the 819th Red Horse Squadron of Air Combat Command. The mission of the 341st MW is to defend America with safe, secure, effective nuclear forces and combat-ready Airmen. The 341st MW operates, maintains and secures 150 Intercontinental Ballistic Missiles positioned across 23,500-square-miles of Montana. The wing also operates 8 UH-1N Huey helicopters that perform nuclear convoy security and missile site support.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL	0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION MALMSTROM AIR FORCE BASE MALMSTROM SITE # 1 MONTANA			4. PROJECT TITLE RELOCATE MISSILE MAINTENANCE FACILITY		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 212-216	7. RPSUID/PROJECT NUMBER 2528/NZAS173001	8. PROJECT COST (\$000) 14,600		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					11,017
MISSILE MX DISPATCH FACILITY		SM	4,047	2,669	(10,801)
SUSTAINABILITY AND ENERGY MEASURES		LS			(216)
SUPPORTING FACILITIES					2,153
PAVEMENTS		LS			(1,196)
SITE IMPROVEMENTS		LS			(253)
UTILITIES		LS			(450)
PASSIVE FORCE PROTECTION MEASURES		LS			(254)
SUBTOTAL					13,170
CONTINGENCY (5.0%)					659
TOTAL CONTRACT COST					13,829
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					788
TOTAL REQUEST					14,617
TOTAL REQUEST (ROUNDED)					14,600
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(400.0)
10. Description of Proposed Construction: The new Helo/TRF beddown program is displacing the Missile Maintenance Dispatch facility from Bldg 1440. The new Missile Maintenance Dispatch Facility will provide office space for managing /planning maintenance activity, storage for thousands of components/equipment for missile field, shop space for component repair/testing, and keep vehicles out of the weather and prolong resource lifespan of vehicle. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 30 Tons					
11. Requirement: 4047 SM Adequate: SM Substandard: 4047 SM					
PROJECT: Missile Maintenance Dispatch Facility, (Current Mission)					
REQUIREMENT: The Missile Maintenance Dispatch Facility will be used to provide indoor maintenance on equipment used in the missile field, store parts for missile maintenance as needed and keep vehicles out of the weather. On-base facilities are required to inspect and repair components and equipment to be used/installed at ICBM Launch and Launch Control Facilities. Facilities should increase efficiency of component/equipment transport from repair shop to the installer. Maintenance teams utilize a fleet of various types of vehicles (some very specialized) to repair/maintain/replace all components. On-base facilities are needed to manage maintenance personnel and maintenance functions as well as stage personnel, equipment and vehicles for dispatch to remote worksites. Indoor vehicle parking					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION MALMSTROM AIR FORCE BASE MALMSTROM SITE # 1 MONTANA			4. PROJECT TITLE RELOCATE MISSILE MAINTENANCE FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 212-216	7. RPSUID/PROJECT NUMBER 2528/NZAS173001	8. PROJECT COST (\$000) 14,600	
<p>space is needed for maximum efficiency in dispatch preparation, regardless of weather, some of which is severe enough to limit outdoor exposure to 15 minute work periods. Indoor vehicle storage also is needed for standby resources to meet contingencies, especially in winter when vehicles have to meet specific environmental parameters prior to loading mission specific components/equipment. Indoor vehicle parking also slows degradation of hoses, seals, wiring, and tires of vehicles that were purpose built for missile maintenance tasks. Missile Maintenance is also unique in its requirements to have large scale tools and handling equipment on hand and mission ready.</p> <p>CURRENT SITUATION: Currently Missile Maintenance Dispatch personnel, equipment, parts and vehicles are stored in Bldg 1440. Due to the Helo/TRF beddown, the Missile Maintenance Dispatch area will be displaced from Bldg 1440 so that Bldg 1440 can be retrofitted for the new helicopters. Since Malmstrom is in a northern tier climate, the equipment, personnel and vehicles need a new facility to operate in a climate controlled environment. Currently Missile Maintenance functions are not collocated which is leading to decreased efficiency.</p> <p>IMPACT IF NOT PROVIDED: The Missile Maintenance personnel will waste crew hours to warm up vehicles, run performance tests on the vehicles, transport parts/equipment from a facility to the vehicles, clear snow off vehicles in the winter, and security inspect each vehicle before use. Some components cannot be loaded for transport until interior van temperatures meet TO specified parameters. Unique, purpose-built equipment/parts are temperature sensitive and will be damaged if exposed to extreme cold/hot temperatures. Regulations limit team work day length so delays in getting off base may force teams to Remain Overnight (RON) taking 2 days to complete a single dispatch. Delays generated by cold vehicles compromises opportunities to complete daylight-only tasks.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." An economic analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction) was accomplished. The proposed project was determined to be the most effective option. Base Civil Engineer, (406) 731-6188. 4,047 SM = 43,565 SF.</p> <p>JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION MALMSTROM AIR FORCE BASE MALMSTROM SITE # 1 MONTANA		4. PROJECT TITLE RELOCATE MISSILE MAINTENANCE FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 212-216	7. PROJECT NUMBER 2528/NZAS173001	8. PROJECT COST (\$000) 14,600
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			30-JUL-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			17-MAR-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			876
(b) All Other Design Costs			438
(c) Total			1,314
(d) Contract			1,095
(e) In-house			219
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			19 APR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FF&E	3080	2018	400

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911					
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE NEVADA					4. COMMAND AIR COMBAT COMMAND			5. AREA CONSTRUCTION COST INDEX 1.23				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-15	1764	7310	1277	45	11	0	79	125	193	10,804	
b. END FY	2021	1764	7310	1277	45	11	0	79	125	193	10,804	
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE		14,160										
b. INVENTORY TOTAL AS OF		30-Sep-15		4,430,213								
c. AUTHORIZATION NOT YET IN INVENTORY		281,590										
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)		10,600										
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)		33,778										
f. REMAINING DEFICIENCY		218,900										
g. GRAND TOTAL		4,975,081										
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)												
		CATEGORY						COST		DESIGN STATUS		
CODE	PROJECT TITLE				SCOPE			(\$000)		START COMPLETE		
121-124	F-35A POL Fill Stand Addition				186 SM			10,600		Design Build		
							TOTAL		10,600			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)												
171-212	OTI Virtual Warfare Center				1,024 SM			30,000				
171-212	CRH Simulator				556 SM			3,778				
							TOTAL		33,778			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL		21.2			
10. MISSION OR MAJOR FUNCTIONS												
10. Mission or Major Functions: USAF Warfare Center manages advanced pilot training, operation, testing, and tactics development in air, space, and cyberspace. Its named unit, Nevada Test & Training Range (NTTR), oversees the 15,000 sq. mile Nevada Test and Training Range Complex that includes an emergency airfield. 57th Wing, A-10A, F-15C/E, F-16, F-22A, F-35A, HH-60G. 57th Wing missions include Red Flag exercises (414th Combat Training Sq.); graduate level pilot training (USAF Weapons School); support for Army exercises (549th Combat Training Sq.); training for international personnel in joint firepower procedures and techniques (57th Operations Gp.); and USAF Air Demonstration Sq. (Thunderbirds).												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)												
a. Air Pollution		0										
b. Water Pollution		0										
c. Occupational Safety and Health		0										
d. Other Environmental		0										
							TOTAL		0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA		4. PROJECT TITLE F-35A POL FILL STAND ADDITION			
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 121-124	7. RPSUID/PROJECT NUMBER 3056/RKMF173001	8. PROJECT COST (\$000) 10,600		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					8,531
POL FILLSTANDS (126-925)		OL	2	322,500	(645)
PUMPHOUSE (121-124)		SM	186	22,215	(4,132)
FUEL PIPING SYSTEM, 600 GPM (121-122)		EA	3	1,195,667	(3,587)
SUSTAINABILITY & ENERGY MEASURES		LS			(167)
SUPPORTING FACILITIES					761
UTILITIES		LS			(187)
SITE IMPROVEMENTS		LS			(135)
PAVEMENTS		LS			(439)
SUBTOTAL					9,292
CONTINGENCY (5.0%)					465
TOTAL CONTRACT COST					9,757
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					556
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					372
TOTAL REQUEST					10,684
TOTAL REQUEST (ROUNDED)					10,600
10. Description of Proposed Construction: Construct two new jet fuel truck fill stands and one new pumphouse to support the fuel requirements of additional F-35A aircraft arriving at Nellis AFB, NV. The project will include fill stands and all tie-in piping associated with transferring jet fuel from new pump house and existing storage tanks to the new jet fuel truck fill stands, additional concrete pad for refueling truck drive-through, sitework and fencing, utilities and all other support as necessary. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
11. Requirement: 10 OL Adequate: 8 OL Substandard: 0 OL					
<u>PROJECT:</u> F-35A POL Fill Stand Addition (New Mission)					
<u>REQUIREMENT:</u> Nellis AFB is the designated beddown location for Force Development and Evaluation, and the USAF Weapon School for the F-35A weapon system. Jet fuel POL loading facilities, adequately sized and configured, are required to support the permanent beddown of 36 Primary Training Aircraft which began in FY13/2 qtr with the bulk of the aircraft (24) arriving in FY16/3 qtr and later.					
<u>CURRENT SITUATION:</u> Inadequate jet fuel POL fuel loading capacity is hindering the fuel trucks at Nellis AFB from loading aircraft at Nellis in a timely and efficient manner. Starting in FY 16/3 qtr, Nellis AFB will not have enough jet fuel loading capacity available to accommodate the additional 24 F-35A aircraft for Weapons					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA			4. PROJECT TITLE F-35A POL FILL STAND ADDITION	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 121-124	7. RPSUID/PROJECT NUMBER 3056/RKMF173001	8. PROJECT COST (\$000) 10,600	
<p>School training functions. Nellis AFB proper has had significant growth since 2000 with the F-22A Test and Weapon School Beddown (16 aircraft), the F-15/F-16 Aggressor Beddown (48 aircraft) and the expansion of Flag exercises and other force structure actions. Nellis is projected to have over 180 assigned aircraft when all actions are complete. All excess jet fuel POL loading facilities have been at capacity for the last 5 to 7 years, and additional requirements have been documented through the BRAC 2005 process and previously approved new weapon system facility projects. Nellis AFB is a critical asset for capabilities and tactics testing of new weapon systems and the training of combat forces. The installation supports a diversity of weapons systems ranging from HH-60s, A-10s, F-15s, F-16s, F-22As, and now the F-35A, all of which support operational test, weapon school, and flag exercises.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Without adequate jet fuel POL loading capacity to support the new F-35A aircraft scheduled to arrive at Nellis AFB, the ability to generate the necessary aircraft sorties to support operational test and weapons school mission requirements will be severely impacted. Other flying missions at Nellis AFB will be severely impacted due to the slowing down of fuel loading capabilities of combat aircraft at Nellis AFB, NV.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide", Air Force Manual 32-1084, "Facility Requirements" and the weapon system Facility Requirement Plan. An analysis of reasonable options for accomplishing this project (status quo, renovations, new construction) was accomplished. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception is being prepared. Base Civil Engineer: (702) 652-4833. Pumphouse: 186 SM = 2001 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA		4. PROJECT TITLE F-35A POL FILL STAND ADDITION	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 121-124	7. PROJECT NUMBER 3056/RKMF173001	8. PROJECT COST (\$000) 10,600
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 424</p> <p>(4) Construction Contract Award 17 FEB</p> <p>(5) Construction Start 17 MAR</p> <p>(6) Construction Completion 18 SEP</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>			

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20150911			
3. INSTALLATION AND LOCATION Cannon Air Force Base New Mexico					4. COMMAND AFSOC			5. AREA CONSTRUCTION COST INDEX 1.01			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	914	3718	438	0	0	0	0	0	0	5,070
b. END FY	2021	781	3620	455	0	0	0	0	0	0	4,856
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		5,756									
b. INVENTORY TOTAL AS OF		30-Sep-15									1,640,884,568
c. AUTHORIZATION NOT YET IN INVENTORY											54,100
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											21,000
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											48,700
f. REMAINING DEFICIENCY											0
g. GRAND TOTAL											1,641,008,368
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
CATEGORY							COST		DESIGN STATUS		
<u>CODE</u>	<u>PROJECT TITLE</u>						<u>SCOPE</u>	<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>	
740-674	NORTH FITNESS CENTER						5,032 SM	21,000	Design Build		
							TOTAL	21,000			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)											
116-662	Construct Hot Cargo Pad						21,602 SM	40,000			
841-161	Utilities Melrose Air Force Range						25,000 LM	8,700			
							TOTAL	48,700			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	16.1			
10. MISSION OR MAJOR FUNCTIONS											
The primary mission of the 27th SOW is to execute specialized airpower from a premier installation. The wing's core missions include close air support, agile combat support, information operations, precision strike, forward presence and engagement, intelligence, surveillance and reconnaissance operations, and specialized mobility.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL	0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION CANNON AIR FORCE BASE CANNON AFB SITE # 1 NEW MEXICO		4. PROJECT TITLE NORTH FITNESS CENTER			
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 740-674	7. RPSUID/PROJECT NUMBER 1551/CZQZ083500	8. PROJECT COST (\$000) 21,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					15,596
FITNESS CENTER (740-674)		SM	5,032	2,583	(12,998)
INDOOR SWIMMING POOL (750-812)		EA	1	2,292,024	(2,292)
SUSTAINABILITY AND ENERGY MEASURES		LS			(306)
SUPPORTING FACILITIES					2,815
UTILITIES		LS			(500)
PAVEMENTS		LS			(1,325)
SITE IMPROVEMENTS		LS			(650)
COMMUNICATIONS		LS			(300)
PASSIVE FORCE PROTECTION		LS			(40)
SUBTOTAL					18,411
CONTINGENCY (5.0%)					921
TOTAL CONTRACT COST					19,331
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					1,102
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					736
TOTAL REQUEST					21,170
TOTAL REQUEST (ROUNDED)					21,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(1,440
<p>10. Description of Proposed Construction: Construct a facility utilizing conventional design construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Includes a 4-lane 25 meter pool, indoor running track (1/7th mile) with a stretching area and an open workout area with field turf for unit physical training and group exercise, sauna, male and female locker rooms, showers, toilets and sinks, support functions (storage, janitor's closet, mechanical room, electrical room, etc.) and a front desk/admin area, and all other supporting facilities.</p> <p>Air Conditioning: 100 Tons</p>					
<p>11. Requirement: 5032 SM Adequate: 0 SM Substandard: 5002 SM</p> <p><u>PROJECT:</u> Construct North Fitness Center. (Current Mission)</p> <p><u>REQUIREMENT:</u> Project will support 6,100+ operation and maintenance personnel associated with the beddown of the Air Force Special Operations Command mission at Cannon AFB. Project must provide an adequate facility to enhance combat readiness</p>					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION CANNON AIR FORCE BASE CANNON AFB SITE # 1 NEW MEXICO			4. PROJECT TITLE NORTH FITNESS CENTER	
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 740-674	7. RPSUID/PROJECT NUMBER 1551/CZQZ083500	8. PROJECT COST (\$000) 21,000	
<p>by supporting unit commanders' fitness program and provide fitness and sports opportunities to all authorized users. This new fitness center will provide adequate fitness functions for the personnel on the north side of base. A new fitness center is needed to aid in the retention of airmen and keeping airmen "fit to fight".</p> <p><u>CURRENT SITUATION:</u> The existing 33 year old fitness center was designed for half the population that Cannon now has under the AFSOC beddown. During peak hours, facility crowding does not allow patrons to finish their workouts due to time limits on equipment or unavailability of equipment. Units are unable to implement effective fitness programs due to the limited space and availability of fitness rooms. Peak aerobic training requirements are driving the removal of many standard fitness center features, e.g. racquetball courts converted to aerobic rooms and male and female locker rooms reduced to accommodate additional showers. The maintenance and repair of the facility more than doubled from 2007 to 2008, and increased 175% in 2009 with over 2,000 man-hours expended to keep the facility running. The Health and Wellness Center was relocated from the fitness center to the existing medical clinic and will be incorporated into the new Medical/Dental Clinic, which is currently under design.</p> <p><u>IMPACT IF NOT PROVIDED:</u> As a remote and isolated base with limited recreational facilities on base and around the local community, a fitness center is a main support for physical fitness and recreation which is critical not only to mission readiness, but also to the health, wellness and morale of military personnel and their dependents. Continued lack of adequate fitness facilities will only worsen as more units reach full manpower strength numbers. The readiness of Cannon's Airmen to be "fit-to-fight" depends on providing up to date, reliable, and appropriately sized fitness and health facilities. Without modern and properly sized fitness centers, AFSOC personnel assigned to Cannon will continue to have an inadequate physical fitness and recreational facilities, degrading the mission. Airmen will be limited in achieving a total physical conditioning program that emphasizes proper aerobic conditioning, strength and flexibility training. Lack of these health benefits from an active lifestyle will decrease productivity, create the inability to optimize health, and lower the level of readiness.</p> <p><u>ADDITIONAL:</u> Between July 2013 and June 2014, 148 days of physical training tests were cancelled due to inclement weather, and there is no permanent indoor PT testing capability. Currently, a temporary hangar is being utilized for indoor PT testing, but that is only an interim solution. This project meets the criteria/scope in Air Force Manual 32-1084, "Facility requirements" and Air Force Services Facilities Design Guide for Fitness Centers. An economic analysis has been completed considering all known alternative options (status quo, new construction, add/alter). New construction was found to be the most cost effective. Base Civil Engineer: 575-784-2008. Fitness Center: 5,032 SM = 54,175 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION CANNON AIR FORCE BASE CANNON AFB SITE # 1 NEW MEXICO		4. PROJECT TITLE NORTH FITNESS CENTER	
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 740-674	7. PROJECT NUMBER 1551/CZQZ083500	8. PROJECT COST (\$000) 21,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			1,050
(4) Construction Contract Award			17 JAN
(5) Construction Start			17 APR
(6) Construction Completion			19 JAN
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
GYMNASIUM EQUIPMENT	3400	2018	1,360
COMMUNICATIONS EQUIPMENT	3400	2018	30
FURNITURE	3400	2018	50

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911				
3. INSTALLATION AND LOCATION HOLLOMAN AIR FORCE BASE NEW MEXICO					4. COMMAND AIR COMBAT COMMAND			5. AREA CONSTRUCTION COST INDEX 0.99			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	274	2671	696	0	60	0	96	359	226	4,382
b. END FY	2021	274	2671	696	0	60	0	96	359	226	4,382
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		53,603									
b. INVENTORY TOTAL AS OF		30-Sep-15									2,305,340
c. AUTHORIZATION NOT YET IN INVENTORY											84,170
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											10,600
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											3,200
f. REMAINING DEFICIENCY											78,650
g. GRAND TOTAL											2,481,960
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY						COST		DESIGN STATUS	
CODE	PROJECT TITLE				SCOPE			(\$000)		START	COMPLETE
116-662	Hazardous Cargo Pad and Taxiway				50,500 SM			10,600		Design Build	
							TOTAL	10,600			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
149-511	RPA Fixed Ground Station Facility				558 SM			3,200			
							TOTAL	3,200			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	92.9			
10. MISSION OR MAJOR FUNCTIONS											
Air Combat Command; a fighter wing with F-16 training squadrons, one German F-4 training squadron, a remotely piloted aircraft (RPA) training mission, a weapons testing and evaluation wing, and the war reserve material bare base support group.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL	0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION HOLLOMAN AIR FORCE BASE HOLLOMAN SITE # 1 NEW MEXICO		4. PROJECT TITLE HAZARDOUS CARGO PAD AND TAXIWAY			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 116-662	7. RPSUID/PROJECT NUMBER 2352/KWRD043006	8. PROJECT COST (\$000) 10,600		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
HAZARDOUS CARGO PAD & TAXIWAY					8,192
ACCESS TAXIWAY (112-211)		SM	16,500	200	(3,300)
ACCESS TAXIWAY, PAVED SHOULDER (116-642)		SM	21,000	128	(2,688)
HAZARDOUS CARGO PAD (116-662)		SM	7,500	200	(1,500)
HAZARDOUS CARGO PAD, PAVED SHOULDER (116-642)		SM	5,500	128	(704)
SUPPORTING FACILITIES					1,360
LIGHTING		LS			(300)
ACCESS ROAD		LS			(600)
STRIPING		LS			(100)
SITE PREPARATION		LS			(360)
SUBTOTAL					9,552
CONTINGENCY (5.0%)					478
TOTAL CONTRACT COST					10,030
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					572
TOTAL REQUEST					10,601
TOTAL REQUEST (ROUNDED)					10,600
10. Description of Proposed Construction: Construct a Hazardous Cargo Pad (HCP) and Access Taxiway that complies with all Airfield and Explosive Safety criteria. Project will include an HCP consisting of 7,500 SM of concrete and 50' asphalt shoulders, as well as an Access Taxiway consisting of 16,500 SM of concrete, also with 50' asphalt shoulders. Also included are base course, airfield marking, airfield lighting, a two-lane asphalt access road leading to the hazardous cargo pad, site improvements and all other necessary support. In addition, rerouting of existing utilities, storm drainage, paved shoulders, aircraft grounding system and aircraft tie down points will be part of the project. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
11. Requirement: 50500 SM Adequate: 0 SM Substandard: 0 SM					
PROJECT: Construct a Hazardous Cargo Pad and Taxiway (Current Mission)					
REQUIREMENT: A hazardous cargo pad is required to load/unload explosives or other dangerous materials on cargo aircraft. This mission requires the location to meet both Airfield and Explosives Safety requirements. The taxiway provides aircraft access to the cargo pad. Pavement shall be medium load with tie down anchors and grounding points.					
CURRENT SITUATION: Currently, the lack of a correctly-sited Hazardous Cargo Pad requires munitions-laden aircraft to park on Taxiway L during load/unload					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HOLLOMAN AIR FORCE BASE HOLLOMAN SITE # 1 NEW MEXICO			4. PROJECT TITLE HAZARDOUS CARGO PAD AND TAXIWAY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 116-662	7. RPSUID/PROJECT NUMBER 2352/KWRD043006	8. PROJECT COST (\$000) 10,600	
<p>operations. This drives the closure of Rwy 07/25 due to Explosives Safety regulations. Closure of Rwy 07/25 often results in single-runway operations, which drastically cuts sortie generation by both the F-16 FTU and the RPA FTU missions. In Calendar Year 2014, the runway closures directly impacted 320 sorties, out of the 8,078 total sorties flown (4%).</p> <p>IMPACT IF NOT PROVIDED: If the Hazardous Cargo Pad and Taxiway are not constructed, routine closure of Rwy 07/25 will continue to result in single-runway operations, which will continue to drastically cut sortie generation by both the F-16 FTU and RPA FTU missions. The current estimated future sortie numbers for per Calendar Year is ~12,500 following complete beddown of the F-16 FTU mission at Holloman AFB. This would equate to an estimated 500 sorties per year impacted by the runway closures associated with the current Hazardous Cargo Pad.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. A preliminary analysis of reasonable options for accomplishing this project (status quo, new construction) was done. It indicates there is only one option that will meet operational requirements. An certificate of exception is being prepared. Base Civil Engineer: (575) 572 3071. Access Taxiway: 16,500 SM = 177,540 SF; Access Taxiway Paved Shoulder: 21,000 SM = 225,960 SF; Hazardous Cargo Pad: 7,500 SM = 80,700 SF; Hazardous Cargo Pad Paved Shoulder: 5,500 SM = 59,180 SF.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE																										
3. INSTALLATION AND LOCATION HOLLOMAN AIR FORCE BASE HOLLOMAN SITE # 1 NEW MEXICO		4. PROJECT TITLE HAZARDOUS CARGO PAD AND TAXIWAY																											
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 116-662	7. PROJECT NUMBER 2352/KWRD043006	8. PROJECT COST (\$000) 10,600																										
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>15-JUN-15</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>YES</td> </tr> <tr> <td>* (c) Percent Complete as of 01 JAN 2016</td> <td>15%</td> </tr> <tr> <td>* (d) Date 35% Designed</td> <td>31-MAR-16</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>30-SEP-16</td> </tr> <tr> <td>(f) Energy Study/Life-Cycle analysis was/will be performed</td> <td>YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>0</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>424</td> </tr> <tr> <td>(c) Total</td> <td>424</td> </tr> <tr> <td>(d) Contract</td> <td>0</td> </tr> <tr> <td>(e) In-house</td> <td>0</td> </tr> </table> <p>(4) Construction Contract Award 17 FEB</p> <p>(5) Construction Start 17 MAR</p> <p>(6) Construction Completion 18 SEP</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>				(a) Date Design Started	15-JUN-15	(b) Parametric Cost Estimates used to develop costs	YES	* (c) Percent Complete as of 01 JAN 2016	15%	* (d) Date 35% Designed	31-MAR-16	(e) Date Design Complete	30-SEP-16	(f) Energy Study/Life-Cycle analysis was/will be performed	YES	(a) Standard or Definitive Design -	NO	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	0	(b) All Other Design Costs	424	(c) Total	424	(d) Contract	0	(e) In-house	0
(a) Date Design Started	15-JUN-15																												
(b) Parametric Cost Estimates used to develop costs	YES																												
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(f) Energy Study/Life-Cycle analysis was/will be performed	YES																												
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(b) Where Design Was Most Recently Used -																													
(a) Production of Plans and Specifications	0																												
(b) All Other Design Costs	424																												
(c) Total	424																												
(d) Contract	0																												
(e) In-house	0																												

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20150911				
3. INSTALLATION AND LOCATION KIRTLAND AIR FORCE BASE NEW MEXICO					4. COMMAND AIR FORCE MATERIEL COMMAND				5. AREA CONSTRUCTION COST INDEX 0.91		
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	350	1152	1742	0	0	0	798	2073	799	6,914
b. END FY	2021	346	1151	1883	0	0	0	702	2063	793	6,938
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		43,842									
b. INVENTORY TOTAL AS OF		30-Sep-15									2,446,515
c. AUTHORIZATION NOT YET IN INVENTORY											77,802
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											7,300
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											40,316
f. REMAINING DEFICIENCY											566,133
g. GRAND TOTAL											3,138,066
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY					COST		DESIGN STATUS		
<u>CODE</u>		<u>PROJECT TITLE</u>					<u>SCOPE</u>	<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>	
171-212	CRH Simulator						902 SM	7,300	Design Build		
							TOTAL	7,300			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
116-662	Construct Hot Cargo Pad						49,000 SM	12,596			
171-214	PJ/CRO Aquatics & Aerial Training Facility						4,304 SM	19,700			
730-142	Replace Fire Station 3						903 SM	8,020			
							TOTAL	40,316			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	139.2			
10. MISSION OR MAJOR FUNCTIONS											
The 377th Air Base Wing is the host organization at Kirtland AFB, activated under AFMC on 1 January 1993 and became part of the Nuclear Weapons Center on 31 March 2006. The Wing operates and maintains the Air Force's sixth largest base and an AF/VA joint medical facility. The Wing provides worldwide readiness, security and support for AF Operational Test and Evaluation Center, AF Safety Center, AF Inspection Agency, two AF Research Lab directorates, Defense Threat Reduction Agency, Department of Energy and Sandia National Laboratories.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL	0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION KIRTLAND AIR FORCE BASE KIRTLAND SITE # 1 NEW MEXICO		4. PROJECT TITLE COMBAT RESCUE HELICOPTER (CRH) SIMULATOR		
5. PROGRAM ELEMENT 27229	6. CATEGORY CODE 171-212	7. RPSUID/PROJECT NUMBER 2445/MHVM103108	8. PROJECT COST (\$000) 7,300	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				4,120
FLIGHT SIMULATOR (171-212)	SM	902	4,478	(4,039)
SUSTAINABILITY & ENERGY MEASURES	LS			(81)
SUPPORTING FACILITIES				2,166
UTILITIES	LS			(980)
PAVEMENTS	LS			(285)
SITE IMPROVEMENTS	LS			(124)
COMMUNICATIONS SUPPORT	LS			(737)
DEMOLITION	LS			(40)
SUBTOTAL				6,286
CONTINGENCY (5.0%)				314
TOTAL CONTRACT COST				6,600
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				376
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				251
TOTAL REQUEST				7,228
TOTAL REQUEST (ROUNDED)				7,300)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(31,000
<p>10. Description of Proposed Construction: High bay simulator with foundation, floors, walls, and roof to match general appearance and character of existing facility. Include one 60' X 60' high-bay simulator room, restrooms, mechanical room, image generator room, office, and multi-purpose rooms to accommodate meeting, educational, and briefing functions. Work will include site preparation, seismic provisions, communications support, secure communications trench, classified and unclassified areas, plumbing, electrical, HVAC and fire protection systems, landscaping, storm drainage and all supporting utilities. Due to substandard soil conditions, over-excavation and special foundations will be required. An existing generator enclosure is to be demolished as part of the project, as well as the relocation of two electrical transformers. Facilities will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements, and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.</p> <p>Air Conditioning: 300 Tons</p>				
<p>11. Requirement: 902 SM Adequate: 0 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> Construct CRH Full Motion Simulator Facility (New Mission).</p> <p><u>REQUIREMENT:</u> Adequate space is required to install and operate an HH-60W flight simulator to train Combat Rescue Helicopter (CRH) personnel as part of the forthcoming aircraft replacement. The facility will house the HH-60W simulator</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION KIRTLAND AIR FORCE BASE KIRTLAND SITE # 1 NEW MEXICO			4. PROJECT TITLE COMBAT RESCUE HELICOPTER (CRH) SIMULATOR	
5. PROGRAM ELEMENT 27229	6. CATEGORY CODE 171-212	7. RPSUID/PROJECT NUMBER 2445/MH MV103108	8. PROJECT COST (\$000) 7,300	
<p>that provides realistic training and accurately portrays the Mission Design Series (MDS) to train and increase readiness of CRH flight crews.</p> <p><u>CURRENT SITUATION:</u> There are currently no facilities at Kirtland AFB to house the new simulator and HH-60M training requirements. The current HH-60G flight simulator facility must continue to operate until the HH-60W completely replaces legacy aircraft. As existing HH-60G aircraft and simulators are phased out, additional HH-60W simulators will replace them.</p> <p><u>IMPACT IF NOT PROVIDED:</u> There are no workarounds in lieu of constructing a new facility. Without this project, students will not be provided the critical training required to fly the new HH-60W aircraft. New flight simulators will be delivered without a facility to house them, and these costly and sensitive devices will have to be stored at government expense.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements: new construction. A certificate of exception is being prepared. Base Civil Engineer: (505) 846-7911. HH-60 Simulator Facility: 902 SM = 9,709 SF</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION KIRTLAND AIR FORCE BASE KIRTLAND SITE # 1 NEW MEXICO		4. PROJECT TITLE COMBAT RESCUE HELICOPTER (CRH) SIMULATOR	
5. PROGRAM ELEMENT 27229	6. CATEGORY CODE 171-212	7. PROJECT NUMBER 2445/MH MV103108	8. PROJECT COST (\$000) 7,300
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			292
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			18 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
SIMULATOR DEVICE (WST 1)	3600	16	25,000
FURNITURE, FIXTURES, AND EQUIP	3400	18	2,000
SIMULATOR DEVICE (AVDTT 1)	3600	16	3,000
SIMULATOR DEVICE (AVDTT 2)	3010	16	1,000

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYMMDD) 20150911			
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE OHIO					4. COMMAND AIR FORCE MATERIEL COMMAND			5. AREA CONSTRUCTION COST INDEX 0.94			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	1697	1849	9651	0	0	0	1162	2246	2643	19,248
b. END FY	2021	1684	1823	9156	0	0	0	1121	2219	2608	18,611
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		8,179									
b. INVENTORY TOTAL AS OF		30-Sep-15									5,350,823
c. AUTHORIZATION NOT YET IN INVENTORY											29,500
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											12,600
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											7,300
f. REMAINING DEFICIENCY											456,350
g. GRAND TOTAL											5,856,573
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY						COST		DESIGN STATUS	
<u>CODE</u>	<u>PROJECT TITLE</u>							<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>	
730-839	Relocate Entry Control Point 26A				LS			12,600	Design Build		
							TOTAL	12,600			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
130-142	RELOCATE FIRE CRASH/RESCUE STATION				1,679 SM			7,300			
							TOTAL	7,300			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	350,000.0			
10. MISSION OR MAJOR FUNCTIONS											
Wright-Patterson Air Force Base, home of the 88th Air Base Wing, whose mission is to operate a world-class Air Base Wing that prepares and supports a war-winning capability, provides operational support and maintains 128 tenant organizations. Among these are: Headquarters Air Force Materiel Command, Air Force Life Cycle Management Center, Air Force Research Laboratory, Air Force Institute of Technology, Development & Fielding Systems Group, 445th Air Lift Wing, National Museum of the Air Force, and National Air and Space Intelligence Center.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL	0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION WRIGHT PATTERSON AIR FORCE BASE WRIGHT-PATT SITE # 1 OHIO		4. PROJECT TITLE RELOCATE ENTRY CONTROL FACILITY 26A			
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 730-839	7. RPSUID/PROJECT NUMBER 3530/ZHTV123205	8. PROJECT COST (\$000) 12,600		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
RELOCATE ENTRY CONTROL FACILY (ECF) 26A					2,431
TRAFFIC CK HOUSE 26A, CANOPY, 4 KIOSK 730-839		LS			(768)
FINAL DENIAL BARRIER (FDB) 872-247		LS			(722)
COMMERCIAL VEHICLE INSPECTION FAC 730-837		LS			(678)
REINFORCE CHAIN LINK FENCE(PFPM) 872-245		LS			(202)
SUSTAINABLE AND ENERGY MEASURES		LS			(60)
SUPPORTING FACILITIES					8,570
UTILITIES		LS			(1,250)
PAVEMENTS		LS			(6,280)
SITE IMPROVEMENTS		LS			(100)
ROAD LIGHTING		LS			(650)
EMERGENCY GENERATOR (30KW)		LS			(33)
COMMUNICATIONS SUPPORT		LS			(62)
DEMOLITION (ROAD & F/34000, F/11465)		SM	1,159	169	(196)
SUBTOTAL					11,000
CONTINGENCY (5.0%)					550
TOTAL CONTRACT COST					11,550
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					658
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					440
TOTAL REQUEST					12,649
TOTAL REQUEST (ROUNDED)					12,600)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(330
10. Description of Proposed Construction: Construct a new gate house, canopy, and commercial vehicle inspection facility. Construction will consist of asphalt concrete base, aggregate base, asphalt concrete intermediate course, asphalt concrete surface course, storm sewer pipe, storm catch basin, storm manhole, fence installation, traffic signs and signs supports, seeding and mulching, and all require lighting. Work to include drainage and all utilities and utilities relocation. Provide pavement, and curbs. Reconfigure fencing and provide gate. Project will provide Final Denial Barriers (FDB) and traffic control lights. Provide a canopy and bulletproof guard kiosks. Provide exterior lighting and site utilities (water, sewer, power). Demolish traffic check house F/34000 and pavements at Gate 26A. Remove the commercial inspection facility at Gate 16A, F/11465. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION WRIGHT PATTERSON AIR FORCE BASE WRIGHT-PATT SITE # 1 OHIO			4. PROJECT TITLE RELOCATE ENTRY CONTROL FACILITY 26A	
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 730-839	7. RPSUID/PROJECT NUMBER 3530/ZHTV123205	8. PROJECT COST (\$000) 12,600	
Air Conditioning: 1 Tons				
11. Requirement: 1 LS Adequate: LS Substandard: LS				
<u>PROJECT:</u> Relocate Entry Control Facility 26A. (Current Mission)				
<u>REQUIREMENT:</u> Force protection and secured entry control for Air Force installations. This Entry Control Point is require to secure the installation from unauthorized access and intercept contraband (weapons, explosives, drugs, classified material, etc.) while maximizing vehicular traffic flow. Compliance with the requirements of the Unified Facilities Criteria (UFC) 4-022-01 "Security Engineering: Facilities/Access Control Points" and the Surface Development and Distribution Command Transportation Engineering Agency (SDDCTEA) Pamphlet 55-155 "Traffic Engineering for Better Entry Control" is required.				
<u>CURRENT SITUATION:</u> Entry Control Facility 26A provides access from State Route (SR) 235 to the northwest side of WPAFB. Key missions in this area include the West Ramp flightline, hosting the 445 Airlift Wing military transport mission, and the munitions storage area. ECF 26A does not meet the requirements in Unified Facilities Criteria (UFC) 4-022-01 "Security Engineering: Facilities/Access Control Points" and the Surface Development and Distribution Command Transportation Engineering Agency (SDDCTEA) Pamphlet 55-15 "Traffic Engineering for Better Entry Control". This gate and perimeter fence is 200 ft from Douglas Road-- the sole road connecting the West Ramp with the remainder of Area A south of the runway. This short distance prevents ECF 26A from being upgraded in its present location to Anti-Terrorism standards. The short access road does not provide sufficient queuing for traffic entering the base, nor will it provide adequate distance for activation of final denial barriers. Douglas Road cannot be relocated deeper into the base to permit sufficient queuing distance as it would impinge on airfield operations and clearance requirements. Inspection of large commercial/cargo trucks is provided at Gate 16A. In the event of suspicious cargo, the area in the vicinity of Gate 16A is cordoned off in a 2,000 foot radius around the truck inspection facility. This forces the evacuation of multiple communications support facilities housing the base LAN and telephone operations and the communications service call center. Antennae at this location also support the National Airborne Operations Center (NAOC) aircraft, which are operational when the aircraft is on base. The evacuation radius would close State Route 444, a four lane divided highway connecting Wright-Patterson AFB and the adjacent city of Fairborn with Dayton and its northern suburbs.				
<u>IMPACT IF NOT PROVIDED:</u> Failure to relocate Gate 26A will result in continued undue risk to missions, aircraft, and personnel assigned to the West Ramp. The lack of final denial barrier will increase the risk of insurgents running the gate and disrupting aircraft and maintenance operations. Lack of sufficient queuing distance will back traffic onto SR 235, causing traffic disruption. Failure to relocate the truck inspection area will lead to continued disruption of the base communications support complex, affecting service call response, LAN, and telephone operations and management. In the event of a detonation, the blast and debris will potentially damage the communications support facilities; leading to long term disruption of base communications as facilities are repaired, communication lines				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION WRIGHT PATTERSON AIR FORCE BASE WRIGHT-PATT SITE # 1 OHIO			4. PROJECT TITLE RELOCATE ENTRY CONTROL FACILITY 26A	
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 730-839	7. RPSUID/PROJECT NUMBER 3530/ZHTV123205	8. PROJECT COST (\$000) 12,600	
<p>and switches are restored and service call activities operate from temporary locations. A detonation could damage the antennae supporting NAOC operations, resulting in loss of communications to the NAOC aircraft; rendering it useless until communications are re-established. An incident will also close Route 444, resulting in Wright-Patterson Area A and Fairborn being cut-off from Dayton and its eastern and northern suburbs, forcing lengthy detours around the northern perimeter of base.</p> <p><u>ADDITIONAL:</u> An economic analysis is not required and has not been prepared for this project because it corrects installation safety and security problems and violations (AFI 65-501, 1.2.2.5, 1.2.2.4). This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." Base Civil Engineer: (937) 257-6214.</p> <p><u>JOINT USE CERTIFICATION:</u> This is an installation utility/infrastructure project, and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION WRIGHT PATTERSON AIR FORCE BASE WRIGHT-PATT SITE # 1 OHIO		4. PROJECT TITLE RELOCATE ENTRY CONTROL FACILITY 26A	
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 730-839	7. PROJECT NUMBER 3530/ZHTV123205	8. PROJECT COST (\$000) 12,600
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			630
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			18 AUG
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
EQUIPMENT FROM OTHER APPROP	3080	2017	330

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911				
3. INSTALLATION AND LOCATION ALTUS AIR FORCE BASE OKLAHOMA					4. COMMAND AIR EDUCATION AND TRAINING COMMAND			5. AREA CONSTRUCTION COST INDEX 1			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	263	1090	1186	277	160	18	0	0	546	3,540
b. END FY	2021	297	1128	1321	1149	604	79	0	0	596	5,174
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		5,048									
b. INVENTORY TOTAL AS OF		30-Sep-15									
c. AUTHORIZATION NOT YET IN INVENTORY										51,150	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)										11,600	
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)										16,500	
f. REMAINING DEFICIENCY										16,800	
g. GRAND TOTAL										1,026,107	
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY						COST		DESIGN STATUS	
<u>CODE</u>	<u>PROJECT TITLE</u>				<u>SCOPE</u>			<u>(\$000)</u>		<u>START</u>	<u>COMPLETE</u>
171-625	KC-46A FTU/FTC Simulator Facility Ph 2				2,063 SM			11,600		Design Build	
								TOTAL		11,600	
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
171-625	KC-46A FTU Fuselage Trainer				679 SM			3,500			
171-625	KC-46A FTU Flight Trng Ctr - Ph 3				2,063 SM			13,000			
								TOTAL		16,500	
R&M UNFUNDED REQUIREMENT (\$M)								TOTAL		9.6	
10. MISSION OR MAJOR FUNCTIONS											
The 97th Air Mobility Wing (AMW) at Altus AFB is responsible for formal training for C-17, KC-135, and KC-46 aircraft for active duty, Guard, and Reserve aircrew, while maintaining worldwide capability to augment Global Reach contingency support. The 97 AMW has complete responsibility for all refueling of military aircraft in its assigned sector of the continental United States. In addition the 97 AMW is an integral part of two Strategic Homeland Defense Missions, Coastal Defense and Maritime Interdiction.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution		0									
b. Water Pollution		0									
c. Occupational Safety and Health		0									
d. Other Environmental		0									
								TOTAL		0	

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION ALTUS AIR FORCE BASE ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA		4. PROJECT TITLE KC-46A FTU FTC SIMULATOR FACILITY PHASE 2			
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 171-625	7. RPSUID/PROJECT NUMBER 1361/AGGN173001	8. PROJECT COST (\$000) 11,600		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					8,348
FLIGHT SIMULATOR TRAINING FAC PHASE 2		SM	2,063	3,969	(8,188)
SUSTAINABILITY AND ENERGY MEASURES		LS			(160)
SUPPORTING FACILITIES					1,783
UTILITIES		LS			(493)
PAVEMENTS		LS			(555)
SITE IMPROVEMENTS		LS			(429)
SITE COMMUNICATIONS SUPPORT		LS			(140)
SPECIAL FOUNDATIONS		LS			(166)
SUBTOTAL					10,131
CONTINGENCY (5.0%)					507
TOTAL CONTRACT COST					10,637
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					606
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					405
TOTAL REQUEST					11,649
TOTAL REQUEST (ROUNDED)					11,600)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(51,300
<p>10. Description of Proposed Construction: Adds to and alters existing Flight Training Center (FTC) to house high bay, Weapons System Trainers (WST), Boom Operator Trainers (BOT), and Part Task Trainers (PTT), using economical design and construction methods to accomplish the classified training mission of the facility. Work includes parking and pavements. In addition, local materials and construction techniques shall be used where cost effective. Work includes all utilities, mechanical systems, communications support, and fire detection/suppression systems to provide a complete and useable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 80 Tons</p>					
<p>11. Requirement: 6905 SM Adequate: 2779 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> KC-46A FTU FTC Simulator Facility Phase 2 (New Mission)</p> <p><u>REQUIREMENT:</u> The AF has designated Altus AFB, OK as the Formal Training Unit (FTU) for the KC-46A tanker aircraft. Facility will support enterprise training and beddown of a KC-46A training squadron comprised of six to eight aircraft scheduled for delivery beginning in FY16. An adequately sized, configured and conditioned Flight Training Center (FTC) is required to support flight training, mission planning, flight operations in a secure environment, aircrew mission briefs and</p>					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION ALTUS AIR FORCE BASE ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA			4. PROJECT TITLE KC-46A FTU FTC SIMULATOR FACILITY PHASE 2	
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 171-625	7. RPSUID/PROJECT NUMBER 1361/AGGN173001	8. PROJECT COST (\$000) 11,600	

debriefs, and communications.

CURRENT SITUATION: Existing facilities are not configured to support the 50 ft x 50 ft x 50 ft WST bay space requirements and security needs. Additionally, existing C-17 WST facility does not meet current ATRP set-back requirements. Estimated costs to harden portions of the existing facility to meet ATRP requirements and to increase the height of the roof so the WST would fit inside the facility would increase the project cost by an additional \$6M. This 2,063 SM flight training center add/alter project is the second of a three phase construction of the 6,905 SM FTC.

IMPACT IF NOT PROVIDED: Without this project being executed in FY 2017, the Air Force will be unable to provide timely aircrew training necessary to continue training and operation of the KC-46A aircraft. The lack of this facility addition and its equipment greatly increases training costs by requiring the use of actual aircraft to provide this training, placing KC-46A aircraft at higher risk of damage due to training accidents. From a student training perspective a 6-month slip to the right in building occupancy would result in a loss of student production at the FTU of 36 pilots and 20 boom operators from initial qualification courses. In addition, during this 6-month slip there would also be a loss of student production of 12 pilots from the aircraft commander upgrade course and 8 pilots from the instructor pilot upgrades and a loss of 12 boom operators from the instructor boom operator production. Without the simulators, this alternative training will result in higher fuel, maintenance, and operational costs to the Air Force.

ADDITIONAL: The criteria/scope for this project is contained in the KC-46A Formal Training Unit Beddown Program Plan 14-01. A preliminary analysis of reasonable options was accomplished comparing alternatives of status quo, renovation, addition/alteration, and new construction. It indicates the most cost effective action for immediate bed down that will meet operational requirements is an addition/alteration of an existing facility. A certificate of exception is being prepared. Base Civil Engineer, (580) 481-6530. KC-46A FTU FTC Simulator Facility Phase 2: 2,063 SM = 22,206 SF

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION ALTUS AIR FORCE BASE ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA		4. PROJECT TITLE KC-46A FTU FTC SIMULATOR FACILITY PHASE 2	
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 171-625	7. PROJECT NUMBER 1361/AGGN173001	8. PROJECT COST (\$000) 11,600
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			YES
(b) Where Design Was Most Recently Used -			Developed for KC-46A
(3) All Other Design Costs			464
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			18 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
BOT (2)	3600	2016	20,000
FURNISHINGS AND EQUIPMENT	3400	2018	100
WST (2)	3600	2016	30,000
COMMUNICATIONS EQUIPMENT	3080	2017	1,200

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20150911			
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE OKLAHOMA				4. COMMAND AIR FORCE MATERIEL COMMAND				5. AREA CONSTRUCTION COST INDEX 0.97			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	255	814	12929				1079	4003	982	20,062
b. END FY	2021	254	810	12793				884	3437	870	19,048
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		5,417AC; Main Base: 4,869AC; Auth Not Yet in Inventory: 156AC									
b. INVENTORY TOTAL AS OF		30-Sep-15									3,080,136
c. AUTHORIZATION NOT YET IN INVENTORY											182,000
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											17,000
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											273,400
f. REMAINING DEFICIENCY											458,845
g. GRAND TOTAL											4,011,381
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY						COST		DESIGN STATUS	
CODE	PROJECT TITLE				SCOPE		(\$000)		START	COMPLETE	
141-762	KC-46A DEPOT SYSTEM INTEGRATION LABORATORY				4,613 SM		17,000		Design Build		
							TOTAL	17,000			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
171-212	E-3G MISSION AND FLIGHT SIMULATOR TRAINING FACI				4,752 SM		26,000				
211-116	KC-46A DEPOT MAINTENANCE Complex, Phase 2				30,076 SM		139,000				
211-159	KC-46A DEPOT MAINTENANCE Complex				17,445 SM		104,000				
214-467	Refueler Vehicle Maintenance Shop				873 SM		4,400				
							FUTURE PROJECTS TOTAL	273,400			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	141.1			
10. MISSION OR MAJOR FUNCTIONS											
Tinker's largest organization is the Oklahoma City Air Logistics Complex. It provides depot maintenance on the C/KC-135, B-1B, B-52 and E-3 aircraft, expanded phase maintenance on the Navy E-6 aircraft, and maintenance, repair and overhaul of F101, F107, F108, F110, F117 F118 and TF33 engines for the Air Force, Air Force Reserve, Air National Guard, Navy and foreign military sales.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL	0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA		4. PROJECT TITLE KC-46A DEPOT SYSTEM INTEGRATION LABORATORY			
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 141-762	7. RPSUID/PROJECT NUMBER 3342/WWYK173003	8. PROJECT COST (\$000) 17,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					13,172
DEPOT SYSTEM INTEGRATION LABORATORY		SM	4,613	2,799	(12,914)
SUSTAINABILITY AND ENERGY MEASURES		LS			(258)
SUPPORTING FACILITIES					1,678
UTILITIES		LS			(610)
SITE IMPROVEMENTS		LS			(125)
PAVEMENTS		LS			(100)
COMMUNICATIONS		LS			(88)
DRILLED PIERS		LS			(561)
CHILLED WATER DISTRIBUTION		LS			(149)
CONNECTION CHARGE TO UTILITY PROVIDER		LS			(45)
SUBTOTAL					14,850
CONTINGENCY (5.0%)					742
TOTAL CONTRACT COST					15,592
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					889
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					594
TOTAL REQUEST					17,075
TOTAL REQUEST (ROUNDED)					17,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(102,885
<p>10. Description of Proposed Construction: Construct a system integration laboratory utilizing economical design and construction methods compatible with applicable DoD, Air Force and the base design standards. In addition; local materials and construction techniques shall be used where economical. Includes pavements, site improvements, communications support, computer rooms with raised floor, administration and support areas, all necessary utilities and HVAC. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01.</p> <p>Air Conditioning: 200 Tons</p>					
<p>11. Requirement: 4613 SM Adequate: 0 SM Substandard: 0 SM</p> <p><u>PROJECT:</u> KC-46A Depot System Integration Laboratory. (New Mission)</p> <p><u>REQUIREMENT:</u> An adequately sized and configured facility is required for the 76 SMXG to accomplish the systems and software engineering mission for the KC-46A software development and integration. The System Integration Laboratory will focus on software support associated with KC-46A mission equipment integration with flight deck equipment as well as perform dynamic real time flight scenario testing. The facility will house software development, maintenance and laboratory testing</p>					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA			4. PROJECT TITLE KC-46A DEPOT SYSTEM INTEGRATION LABORATORY	
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 141-762	7. RPSUID/PROJECT NUMBER 3342/WWYK173003	8. PROJECT COST (\$000) 17,000	
<p>of refueling systems, electronic warfare, avionics systems, as well as integration of military defensive systems in support of the KC-46A mission. This new facility is an integral part of logistical plans to support the KC-46A and will enable the requisite throughput, capability & efficiencies resulting in reduced maintenance and licensing costs for hardware & software, reduced operating costs for software operations, and reduced development costs for future capabilities. The facility program includes lab space to house engineering development workstations and an integration and test environment with raised flooring, potential high bay areas, and special power and cooling requirements. The lab areas are comprised of several stand-alone benches and multiple integration labs with sufficient capacity for all KC-46A software sustainment and modernization. The facility requires a classified security system, wiring, and communication lines. The facility must also comply with DoD minimum force protection construction standards. All external doors need to be secured. All internal walls will be moveable.</p> <p><u>CURRENT SITUATION:</u> Currently, operational flight software is developed/maintained by SMXG in buildings 1083 (B-2) and 3220 (B-52, B-1, E-3). Bldg 1083 has neither the capacity nor the security environment to enable KC-46 software support to be accomplished. Bldg 3220 does not have capacity due to current staffing levels coupled with ongoing growth with an additional B-52 SIL, B-52 CONECT, and E-3 Mission Computing workloads. Existing space within facility 9001 is not configured to support this workload and must be constructed from the ground up.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Title 10 USC 2464 requires organic capability exists no later than four years after achieving Initial Operational Capability. The KC-46A Product Support Manager (PSM) has targeted Initial Operational Capability (IOC) as a "stretch" goal to establish organic capability to limit or eliminate the costs associated with Interim Contractor Support (ICS). In order to meet Title 10 requirements, it is necessary to construct the software integration support facility in FY17. Failure to do so violates Title 10 and increases program ICS costs.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in the Air Force Manual 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs. therefore, a complete economic analysis was not performed. A certificate of exception has been prepared. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in Block 9 under Supporting Facilities as, "Connection Charge to Utility Provider". The Base Civil Engineer: 405-734-3451. KC-46A Depot System Integration Laboratory: 4,613SM = 49,650SF.</p> <p><u>JOINT USE CERTIFICATION:</u> Mission requirements, operational considerations, and location are incompatible with use by other components.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA		4. PROJECT TITLE KC-46A DEPOT SYSTEM INTEGRATION LABORATORY	
5. PROGRAM ELEMENT 41221	6. CATEGORY CODE 141-762	7. PROJECT NUMBER 3342/WWYK173003	8. PROJECT COST (\$000) 17,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			850
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 APR
(6) Construction Completion			18 DEC
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
SYSTEMS FURNITURE	3400	2018	2,184
COMMUNICATIONS	3400	2018	437
MATERIAL/EQUIPMENT	3400	2018	264
SIL BENCHES/TEST STANDS/SIMS	3010	2018	60,000
SIL PME/LRUS	3010	2018	25,000
S/W ENGR DEVELOPMENT ENVIR'MNT	3010	2018	15,000

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911				
3. INSTALLATION AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND AIR FORCE BASE TEXAS					4. COMMAND AIR EDUCATION AND TRAINING COMMAND			5. AREA CONSTRUCTION COST INDEX 0.84			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	666	3292	3051	555	9776	10	1634	7557	5708	32,249
b. END FY	2021	666	3292	3054	555	9776	10	1672	7179	6630	32,834
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		2,311									
b. INVENTORY TOTAL AS OF		30-Sep-15									2,964,124
c. AUTHORIZATION NOT YET IN INVENTORY											451,595
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											67,300
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											135,802
f. REMAINING DEFICIENCY											293,577
g. GRAND TOTAL											3,912,398
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY						COST		DESIGN STATUS	
<u>CODE</u>	<u>PROJECT TITLE</u>				<u>SCOPE</u>			<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>	
721-311	BMT Recruit Dormitory 6				26,065 SM			67,300	06/15	09/15	
							TOTAL	67,300			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
171-621	BMT Classrooms/Dining Facility 4				5,891 SM			22,802			
721-311	BMT Recruit Dormitory 7				26,065 SM			73,000			
149-962	Air Traffic Control Tower (Kelly Field Annex)				586 SM			10,000			
730-771	BMT Chapel for America's Airmen				8,768 SM			30,000			
							TOTAL	135,802			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	7.4			
10. MISSION OR MAJOR FUNCTIONS											
A training wing which includes Basic Military Training (BMT) School, Security Forces, Combat Convoy/Arms/ Control, Pararescue, Survival Evasion Resistance Escape, Logistics, Enlisted Aircrew, Services, Contracting, Vehicle Maintenance, Military Training Instructor, Defense Language Institute English Language Center, Inter-American Air Forces Academy, and DoD Military Working Dog Training. Additional missions include Air Force Security Forces Center, Recruiting, Cryptographic maintenance, Reserve C-5 training, & a major medical center.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL	0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS			4. PROJECT TITLE BMT RECRUIT DORMITORY 6		
5. PROGRAM ELEMENT 85976	6. CATEGORY CODE 721-311	7. RPSUID/PROJECT NUMBER 2461/MPLS083737R6	8. PROJECT COST (\$000) 67,300		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					47,267
RECRUIT DORMITORY (1248 PN - 721-311)		SM	19,637	1,774	(34,836)
MTI ADMINISTRATIVE SPACE (610-241)		SM	1,261	2,227	(2,808)
TRAINING/FORMATION OPEN SPACE (179-371)		SM	3,283	1,469	(4,823)
PENTHOUSE FOR MECHANICAL EQUIPMENT (721-311)		SM	1,891	1,537	(2,906)
WEAPONS CLEANING PAVILION (145-921)		SM	465	2,202	(1,024)
SUSTAINABILITY & ENERGY MEASURES		LS			(870)
SUPPORTING FACILITIES					13,462
SITE IMPROVEMENTS PLUS EISA AND STORM WATER		LS			(1,868)
EXERCISE/DRILL PAD AND RUNNING TRACK(750-177)		LS			(3,162)
UTILITIES		LS			(2,687)
PAVEMENTS		LS			(1,412)
SPECIAL DRILLED PIER FOUNDATION		LS			(957)
COMMUNICATIONS INFRASTRUCTURE		LS			(194)
DEMOLITION		SM	20,050	159	(3,182)
SUBTOTAL					60,729
CONTINGENCY (5.0%)					3,036
TOTAL CONTRACT COST					63,766
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					3,635
TOTAL REQUEST					67,400
TOTAL REQUEST (ROUNDED)					67,300
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(2,750.0)
10. Description of Proposed Construction: Construction includes a multi-story facility consisting of a drilled pier foundation, concrete floor slabs, structural steel frame, masonry walls, standing seam metal roof, and an elevator. Areas include administrative support, open-bay dormitories, central latrines, drill pad, weapons cleaning pavilion, physical training areas, and storage. Demolishes facilities totaling 20,050 SM. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 450 Tons					
11. Requirement: 26537 SM Adequate: 0 SM Substandard: 20521 SM					
PROJECT: Construct Basic Military Training (BMT) Recruit Dormitory (Current Mission)					
REQUIREMENT: A major Air Force objective is to provide recruits with facilities					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS			4. PROJECT TITLE BMT RECRUIT DORMITORY 6	
5. PROGRAM ELEMENT 85976	6. CATEGORY CODE 721-311	7. RPSUID/PROJECT NUMBER 2461/MPLS083737R6	8. PROJECT COST (\$000) 67,300	
<p>conducive to their proper housing, dining, and training. Properly sized, sited, designed, and furnished facilities are essential to successfully train future Air Force enlisted personnel. To support current accession rates, a total of 8 Recruit Housing & Training (RH&T) facilities are required to accomplish the BMT mission at Lackland AFB. This project provides the fifth Airmen Training Complex (ATC) dormitory building in the RH&T Replacement program. This ATC facility will house a Basic Military Training Squadron including dormitory and administrative space. This project is designed to accommodate 1,248 recruits; 48 recruits per flight, 24 flights per squadron with 4 reserve bed spaces per flight in order to address surges, gender separation and injured recruits. This project will also construct a new drill pad, running track, exercise areas, war skills training areas, and a pavilion for training weapons cleaning, storage, and latrines. Constructs the sixth BMT dormitory building.</p> <p>CURRENT SITUATION: RH&T facilities, the BMT program, and Lackland AFB form an initial, but lasting impression of the Air Force to all new recruits. Existing 215,824 SF RH&T facilities, originally constructed in the 1960's and 1970's, were designed to provide housing, dining, classrooms, and other training space in one facility in order to develop teamwork, discipline, and Esprit de corps among the recruits. These facilities are outdated and are inadequate to support current and planned accessions of Air Force Active Duty, Reserve, and Air National Guard personnel considering future force structure and strength. Due to deterioration, age, and exceeding their useful life, the RH&Ts require significant O&M capital to keep them operational -- an estimated annual average of \$2.1M per RH&T (\$16.8M for today's 8 RH&Ts) for the next 28 years according to the facility assessment study and detailed Economic Analysis. Available training hours, training quality, cohesiveness, and Esprit de corps are degraded as a direct result of decentralized BMT facilities and functions. A centralized, master planned, BMT campus does not exist. BMT has difficulty accommodating summer recruit surges while accomplishing maintenance, repair and renovation projects of the aging, inadequate, and substandard RH&Ts. Recruits do not have the minimum standard square footage during surge and overhaul periods forcing as many as 65 recruits per flight in facilities designed for 50 recruits per flight. This further stresses infrastructure systems and accelerates deterioration. The fire protection system is inadequate and obsolete. The mechanical, electrical, and lighting systems and interior finishes are at the end of their useful lives and require replacement.</p> <p>IMPACT IF NOT PROVIDED: One of Lackland Air Force Base's primary missions is to educate and train every BMT enlisted recruit when entering military service in the U.S. Air Force. Without quality BMT programs and state-of-the-art, master-planned facilities, the Air Force will have difficulty recruiting, training, and retaining new recruits. BMT schedules will continue to be stretched to critical levels that risk mission loss. Facilities will continue to age and will require increasingly more capital to keep them operational. During surge periods, or when existing RH&Ts are being repaired, maintained, or overhauled, flight sizes will increase and recruits will continue to live in space with less than the minimum standard square footage per recruit. Significant capital must be spent to convert the existing RH&T facilities to current antiterrorism/force protection (AT/FP) criteria.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS			4. PROJECT TITLE BMT RECRUIT DORMITORY 6	
5. PROGRAM ELEMENT 85976	6. CATEGORY CODE 721-311	7. RPSUID/PROJECT NUMBER 2461/MPLS083737R6	8. PROJECT COST (\$000) 67,300	
<p>ADDITIONAL: This project meets the criteria/scope for recruit housing specified in Air Force Handbook 32-1084, "Standard Facility Requirements Handbook". The new OSD Dormitory standard does not apply to this facility. It is excluded as a recruit dormitory. A full Economic Analysis was performed demonstrating the economic advantage of new construction to meet the program requirements. Base Civil Engineer: (210) 671-2977. BMT Recruit Dormitory : 19,637 SM = 211,364 SF; MTI Admin: 1,261 SM = 13,573 SF; Training/Formation: 3,283 SM = 35,337 SF; Weapons Cleaning: 465 SM = 5,005 SF; Penthouse for Mechanical Equipment: 1891 SM = 20,347 SF.</p> <p>BASE CIVIL ENGINEER: Need</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS		4. PROJECT TITLE BMT RECRUIT DORMITORY 6	
5. PROGRAM ELEMENT 85976	6. CATEGORY CODE 721-311	7. PROJECT NUMBER 2461/MPLS083737R6	8. PROJECT COST (\$000) 67,300
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			15-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			31-MAR-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			893
(b) All Other Design Costs			447
(c) Total			1,340
(d) Contract			1,117
(e) In-house			223
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			19 MAR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
WALL LOCKERS AND FURNISHING	3400	2018	2,560
ADPE	3080	2018	190

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYMMDD) 20150911			
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE UTAH					4. COMMAND AIR FORCE MATERIEL COMMAND			5. AREA CONSTRUCTION COST INDEX 1.06			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	320	1172	9915				283	3182	705	15,577
b. END FY	2021	321	1171	9546				308	3337	700	15,383
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		961,925 Main Base: 6,946 Little Mountain Test Compound; 740: UTTR: 954,239									
b. INVENTORY TOTAL AS OF		30-Sep-15									3,650,398
c. AUTHORIZATION NOT YET IN INVENTORY											83,083
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											44,500
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											51,600
f. REMAINING DEFICIENCY											850,115
g. GRAND TOTAL											4,679,696
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY						COST		DESIGN STATUS	
CODE	PROJECT TITLE				SCOPE			(\$000)		START	COMPLETE
216-642	649 MUNS Munitions STAMP/Maintenance & Inspection Faci				3,716 SM			12,000		Design Build	
212-213	F-35A Munitions Maintenance Complex				1,383 SM			10,100		Design Build	
211-154	Composite Aircraft Antenna Calibration Facility				1,301 SM			7,100		Design Build	
212-213	649 MUNS Precision Guided Missile Maintenance Facility				1,377 SM			8,700		Design Build	
422-264	649 MUNS Munitions Storage Magazines				5 EA			6,600		Design Build	
							TOTAL		44,500		
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
116-662	Install New PCC Apron (Hot Pad 8)				30,213 SM			9,200			
141-762	Secure Core Software Facility				6,726 SM			24,900			
141-458	388 RANS Consolidated Mission Control Center				4,181 SM			17,500			
							FUTURE PROJECTS TOTAL		51,600		
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL		72.0		
10. MISSION OR MAJOR FUNCTIONS											
AFLCMC provides the latest in command and control and information systems for various weapons platforms including the E-3 AWACS and E-8 Joint STARS; an Air Force Research Laboratory (AFRL) research site location for the space vehicles directorate; an air base group and recruiting group.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL		0		

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE 649 MUNS MUNITIONS STORAGE MAGAZINES			
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 422-264	7. RPSUID/PROJECT NUMBER 2349/KRSM143007	8. PROJECT COST (\$000) 6,600		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					3,034
MUNITIONS STORAGE MAGAZINES		EA	5	595,000	(2,975)
SUSTAINABILITY AND ENERGY MEASURES		LS			(59)
SUPPORTING FACILITIES					2,671
UTILITIES		LS			(573)
PAVEMENTS		LS			(968)
SITE IMPROVEMENTS		LS			(819)
COMMUNICATIONS SUPPORT		LS			(255)
DEMOLITION		SM	321	177	(57)
SUBTOTAL					5,705
CONTINGENCY (5.0%)					285
TOTAL CONTRACT COST					5,990
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					341
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					228
TOTAL REQUEST					6,560
TOTAL REQUEST (ROUNDED)					6,600
10. Description of Proposed Construction: Construct five earth covered reinforced concrete modular Munitions Storage Magazines (MSMs) capable of storing 150,000 pounds of class 1.1 munitions each. New MSMS are to be constructed in the Munitions and Missile Storage (MAMS) 1 area at Hill AFB. Work includes access roads, reinforced concrete approach aprons, catenary lightning protection, utilities, site improvements, communication support, and all other necessary support. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Demolish two facilities (321 SM).					
11. Requirement: 966 SM Adequate: 0 SM Substandard: 321 SM					
<u>PROJECT:</u> Construct five munitions storage magazines for 649 MUNS. (New Mission)					
<u>REQUIREMENT:</u> Five properly sized and configured MSMS are required to support the new mission STAMP transition from McConnell AFB, Kansas to Hill AFB, Utah. MSMS are each to be equipped with doors wide enough to accommodate the new large containerized precision guided munitions, and to have reinforced concrete approach aprons suitable for heavy equipment loading/maneuvering and to connect to required access road. Each new MSM will require a catenary lightning protection system, two levels of Intrusion Detection Equipment (IDE), internal and external lighting, external phone line/Vindicator for alarm annunciation, and a high security door locking mechanism. MSMS are to be constructed in such a way as to ensure proper					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE 649 MUNS MUNITIONS STORAGE MAGAZINES	
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 422-264	7. RPSUID/PROJECT NUMBER 2349/KRSM143007	8. PROJECT COST (\$000) 6,600

drainage with no steep roadway/apron grades.

CURRENT SITUATION: There are insufficient MSMs to support the scheduled new mission STAMP transition bed down at Hill AFB. All existing MSMs capable of storing Class 1.1 munitions and which are able to physically accommodate the new large containerized precision guided munitions are being used to maximum capacity to support other missions.

IMPACT IF NOT PROVIDED: The 649 Munitions Squadron will not be able to receive delivery of STAMP assets from McConnell AFB in any significant numbers; and the planned STAMP transition program will not be able to go forward as required. Failure to provide adequate munitions storage facilities for this new mission bed down will result in costly production and fielding delays; and specialized assets may not be immediately available to the warfighter when and where he needs them.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Instruction 32-1084 "Facility Requirement." An analysis of reasonable options to meet the requirements was conducted and it was determined that constructing five new MSMs in the MAMS 1 area is the only option that will fully meet operational requirements. Base Civil Engineer: Phone (801) 777-7505.

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE 649 MUNS MUNITIONS STORAGE MAGAZINES	
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 422-264	7. PROJECT NUMBER 2349/KRSM143007	8. PROJECT COST (\$000) 6,600
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 330</p> <p>(4) Construction Contract Award 17 FEB</p> <p>(5) Construction Start 17 APR</p> <p>(6) Construction Completion 18 JUN</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE 649 MUNS PRECISION GUIDED MISSILE MAINTENANCE FACILITY			
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 212-213	7. RPSUID/PROJECT NUMBER 2349/KRSM143006	8. PROJECT COST (\$000) 8,700		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					5,694
PGM MAINTENANCE FACILITY		SM	1,377	4,054	(5,582)
SUSTAINABILITY AND ENERGY MEASURES		LS			(112)
SUPPORTING FACILITIES					1,923
UTILITIES		LS			(616)
PAVEMENTS		LS			(321)
SITE IMPROVEMENTS		LS			(361)
COMMUNICATION SUPPORT		LS			(600)
CONNECTION CHARGE TO UTILITY PROVIDER		LS			(25)
SUBTOTAL					7,616
CONTINGENCY (5.0%)					381
TOTAL CONTRACT COST					7,997
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					456
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					305
TOTAL REQUEST					8,758
TOTAL REQUEST (ROUNDED)					8,700)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(1,530
<p>10. Description of Proposed Construction: Construct a single story, multi-bay Precision Guided Missile (PGM) maintenance facility composed of reinforced concrete footings, foundation, and elevated floor slab to accommodate a reinforced concrete loading dock at the work bays. Provide 12 inch thick reinforced interior concrete dividing walls between work bays with minimum strength of 3500 psi and a 12 inch thick reinforced concrete exterior walls and insulated standing seam metal roof. Include an administrative support core with standard metal stud partition walls to form private offices, men's and women's restrooms, tool room, general storage, mechanical room, electrical room, communications room, vault, and break room. Each work bay to be equipped with 400 Hz/3 phase power, explosion proof lighting, high pressure air, and an 18 foot wide by 20 foot high overhead door. Provide overall catenary lightning protection, surge protection, intrusion detection, fire detection and suppression, grounding, and exterior lighting as required. Project includes all supporting utilities, site improvements, communication infrastructure, and pavements; including a reinforced concrete approach apron in front of a raised loading dock. Loading dock to be of reinforced concrete construction and to be equipped with one dock leveler mechanism in front of each work bay door. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01.</p> <p>Air Conditioning: 40 Tons</p>					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE 649 MUNS PRECISION GUIDED MISSILE MAINTENANCE FACILITY		
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 212-213	7. RPSUID/PROJECT NUMBER 2349/KRSM143006	8. PROJECT COST (\$000) 8,700	
11. Requirement: 8532 SM Adequate: 7155 SM Substandard: 0 SM				
<p>PROJECT: 649 MUNS Precision Guided Missile Maintenance Facility. (New Mission)</p> <p>REQUIREMENT: A facility specifically designed to maintain Precision Guided Missiles (PGM) is required to support the realignment and relocation of PGM specific Standard Air Munitions Package (STAMP) assets from McConnell AFB, Kansas to Hill AFB, Utah beginning in FY15/4. Proposed PGM maintenance facility must be sited in the munitions storage area of Hill AFB, and must be constructed in such a manner, that it is able to accommodate the weighing of T-2 and T-3 munitions pallets for STAMP out load. Proposed facility must be furnished with state-of-the-art mechanical and electrical systems in order to support the maintenance operations on the latest generation of PGM used by 5th generation fighter aircraft.</p> <p>CURRENT SITUATION: With the transfer of STAMP assets from McConnell AFB to Hill AFB, the size of the 649 MUNS munitions stockpile will almost double. Most assets gained by the 649 MUNS will be newly assigned PGM weapons systems consisting of rocket propelled weapons (AIM-120, AGM-88, and AGM-158). This is in stark contrast to the weapon systems currently maintained by 649 MUNS, which consist primarily of gravity weapons, aircraft countermeasures/decoys, and special operations munitions. However, the PGMs are the Air Force's preferred weapons systems in a deployable/combat ready condition. Currently there is no facility of any type at Hill AFB capable of weighing and maintaining AIM-120, AGM-88 and AGM-158 assets on T-2 and T-3 pallets. Furthermore, there are no facilities on Hill AFB that could be altered to perform this mission. All other munitions maintenance related facilities are being used to maximum capacity for current mission conventional munitions workloads.</p> <p>IMPACT IF NOT PROVIDED: Without this project, Hill AFB will not be able to meet the delivery schedule of PGM STAMP assets arriving from McConnell AFB as prescribed by a memorandum of record issued 20 March 2014 by Headquarters Air Force Director of Logistics. Lack of PGM STAMP assets maintained and stored at Hill AFB will hinder the STAMP mission of providing munitions to combat forces operating in multiple regions in support of the Air Force's "Deter and Defeat Aggression" mission.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." A formal economic analysis was conducted and considered other alternatives to new construction including: modifying existing facilities on Hill AFB, leasing off-base facilities, and renovating facilities at other regional military installations. The economic analysis determined that constructing a new PGM maintenance facility at Hill AFB is the most cost effective solution to meet mission requirements. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in Block 9 under Supporting Facilities as, "Connection Charge to Utility Provider". Base Civil Engineer: Phone (801) 777-7505. 649 MUNS Precision Guided Missile Maintenance Facility: 1,377 SM = 14,820 SF</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE 649 MUNS PRECISION GUIDED MISSILE MAINTENANCE FACILITY	
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 212-213	7. RPSUID/PROJECT NUMBER 2349/KRSM143006	8. PROJECT COST (\$000) 8,700
<p><u>JOINT USE CERTIFICATION:</u> Mission requirements, operational considerations, and location are incompatible with use by other components.</p>			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE 649 MUNS PRECISION GUIDED MISSILE MAINTENANCE FACILITY	
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 212-213	7. PROJECT NUMBER 2349/KRSM143006	8. PROJECT COST (\$000) 8,700
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			435
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 APR
(6) Construction Completion			18 JUL
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
PROCESS EQUIPMENT	3080	2017	1,500
TELECOMMUNICATION EQUIPMENT	3080	2017	20
FURINISHINGS	3080	2017	10

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE 649 MUNS MUNITIONS STAMP/MAINTENANCE & INSPECTION FACILITY			
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 216-642	7. RPSUID/PROJECT NUMBER 2349/KRSM083007	8. PROJECT COST (\$000) 12,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					8,145
MUNITIONS INSPECTION FACILITY		SM	3,716	2,150	(7,989)
SUSTAINABILITY AND ENERGY MEASURES		LS			(156)
SUPPORTING FACILITIES					2,316
UTILITIES		LS			(937)
PAVEMENTS		LS			(454)
SITE IMPROVEMENMTS		LS			(320)
COMMUNICATION SUPPORT		LS			(569)
CONNECTION CHARGE TO UTILITY PROVIDER		LS			(36)
SUBTOTAL					10,462
CONTINGENCY (5.0%)					523
TOTAL CONTRACT COST					10,985
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					626
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					418
TOTAL REQUEST					12,029
TOTAL REQUEST (ROUNDED)					12,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(1,548
<p>10. Description of Proposed Construction: Provide four 30' x 50' drive through munitions Maintenance and Inspection (M&I) bays with 16' x 10' high overhead doors each end of drive-through bays; and one 150' x 200' drive through Standard Air Munitions Package (STAMP) assembly bay with eight 20' x 12' high overhead doors; along with a 2,000 SF administrative support core. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Minimum ceiling height throughout to be 15 feet. Walls separating all work bays to be 12" thick reinforced concrete (minimum 3,500 psi). M&I bays to be furnished with 400 Hz/3 phase power and high pressure air. Provide insulated exterior walls, insulated standing seam roof, explosion proof lighting, fire protection, and supporting facilities including utilities, site improvements, and exterior apron pavement to accommodate munitions and MMHE.</p> <p>Air Conditioning: 100 Tons</p>					
<p>11. Requirement: 5829 SM Adequate: 2113 SM Substandard: 2090 SM</p> <p><u>PROJECT:</u> 649 MUNS Munitions STAMP/M&I Facility. (New Mission)</p> <p><u>REQUIREMENT:</u> A new munitions Maintenance and Inspection (M&I) facility, combined with an indoor Standard Air Munitions Package (STAMP) assembly bay, is required to replace an obsolete facility that is unsuitable in most every way to support the realignment and relocation of significant elements of the Air Force's STAMP mission</p>					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE 649 MUNS MUNITIONS STAMP/MAINTENANCE & INSPECTION FACILITY		
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 216-642	7. RPSUID/PROJECT NUMBER 2349/KRSM083007	8. PROJECT COST (\$000) 12,000	
<p>from McConnell AFB, Kansas to Hill AFB, Utah beginning in FY15/4. A new facility, specifically designed to consolidate all standard munitions M&I operations and all STAMP pallet assembly operations under one roof in a location closer to the munitions storage facilities, is required to meet increased readiness and reduced flow times associated with this new STAMP mission. An enclosed STAMP assembly bay will allow for the assembly of munitions pallets in support of any and all deployment operations, without weather related delays and without the lightning strike safety risk inherent with assembling munitions pallets outdoors.</p> <p><u>CURRENT SITUATION:</u> Existing facilities are not adequate to accommodate the additional STAMP assets that will be arriving at Hill Beginning in FY15/4. Current operations are conducted in bldg. 1377, a facility originally built in 1971 for other purposes, but which has now been adapted to serve as an M&I facility for modern munitions. Bldg. 1377 lacks adequate space and mechanical/electrical infrastructure to properly conduct daily M&I of modern munitions. Aircraft Ground Equipment (AGE) generators must be used to supplement electrical power requirements. Overhead doors in work bays are too narrow to accommodate the large forklifts needed to safely move/handle containerized munitions. Work arounds include using smaller forklifts, not rated for the weight being handled, creating an unacceptable accident risk to personnel and material assets. Current door construction cannot economically be retrofitted to meet minimum security requirements. Bldg. 1377 is barely able to support the current workload, let alone the added workload associated with the new mission STAMP transition coming in FY15/4 from McConnell AFB. STAMP assembly operations are currently done outdoors on the concrete approach apron west of bldg 1377, because no suitable indoor facility for these operations exists. Inclement weather has often forced operational delays. During an aircraft pallet build-up operation in Feb 2007, heavy snow/ice accumulation on handling equipment was determined to be the cause of four LDAM kits, worth \$100K each, being dropped and damaged beyond repair. A March 2009 STAMP exercise was cancelled due to the prescribed aircraft load/chalk time being exceeded because of a 30-hour lightning strike hazard delay. During 2012 there were 26 weather related delays due to lightning strikes within 5 miles of the current STAMP pad. Fuel resources and man-hours are regularly wasted transporting munitions on an 8-mile round trip between the munitions storage facilities and bldg 1377.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Without this project, Hill AFB will not be able to meet the delivery schedule of STAMP assets arriving from McConnell as prescribed by HQ Air Force Director of Logistics. The 649th Munitions Squadron will continue to grapple with daily facility maintenance issues that affect workplace safety and delay munitions M&I operations. Resources will continue to be wasted and readiness will continue to be affected as weapons are transported the vast distance from the storage area to the current M&I facility in order to ensure that the weapons are fit to be sent to the war fighter. STAMP assembly operations will continue to suffer weather related delays and lightning strike hazards due to the lack of a suitable STAMP assembly shelter.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Manual</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH			4. PROJECT TITLE 649 MUNS MUNITIONS STAMP/MAINTENANCE & INSPECTION FACILITY	
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 216-642	7. RPSUID/PROJECT NUMBER 2349/KRSM083007	8. PROJECT COST (\$000) 12,000	
<p>32-1084. "Facility Requirements," An economic analysis was conducted and concluded new construction to be the most cost effective option. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in Block 9 under Supporting Facilities as, "Connection Charge to Utility Provider". Base Civil Engineer phone: (801) 777-7505, 649 MUNS Munitions STAMP/ M & I Facility: 3,716 SM = 40,000 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> Mission requirements, operational considerations, and location are incompatible with use by any other component.</p>				

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3. INSTALLATION AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE 649 MUNS MUNITIONS STAMP/MAINTENANCE & INSPECTION FACILITY	
5. PROGRAM ELEMENT 72976	6. CATEGORY CODE 216-642	7. PROJECT NUMBER 2349/KRSM083007	8. PROJECT COST (\$000) 12,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			600
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 APR
(6) Construction Completion			18 AUG
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
OVERHEAD HOIST SYSTEM	3080	2018	520
PROCESS EQUIPMENT	3080	2018	1,000
TELECOMMUNICATION EQUIPMENT	3080	2018	20
FURNISHINGS	3400	2018	8

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE COMPOSITE AIRCRAFT ANTENNA CALIBRATION FACILITY		
5. PROGRAM ELEMENT 27138	6. CATEGORY CODE 211-154	7. RPSUID/PROJECT NUMBER 2349/KRSM143004	8. PROJECT COST (\$000) 7,100	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				4,923
COMPOSITE AIRCRAFT ANTENNA CALIBRATION FAC	SM	1,301	3,709	(4,826)
SUSTAINABILITY AND ENERGY MEASURES	LS			(97)
SUPPORTING FACILITIES				1,280
UTILITIES	LS			(347)
SITE IMPROVEMENTS	LS			(169)
PAVEMENTS	LS			(400)
COMMUNICATION SUPPORT	LS			(330)
CONNECTION CHARGE TO UTILITY PROVIDER	LS			(35)
SUBTOTAL				6,203
CONTINGENCY (5.0%)				310
TOTAL CONTRACT COST				6,513
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				371
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				248
TOTAL REQUEST				7,132
TOTAL REQUEST (ROUNDED)				7,100)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(17,425
<p>10. Description of Proposed Construction: Construct a high bay (55 feet high) Aircraft Maintenance Shop designed and engineered for composite aircraft workload. New construction to have reinforced concrete foundation, floor slab, structural steel frame, insulated walls and roof. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Project includes an antenna calibration test chamber, mezzanine prep area, storage/utility area, antenna room, unisex restroom, lightning protection, fire detection/suppression, and intrusion detection. Provide a mechanical equipment room and all required supporting facilities including: utilities, pavements, site improvements, and communication support for a complete and usable facility.</p> <p>Air Conditioning: 50 Tons</p>				
<p>11. Requirement: 6134 SM Adequate: 4833 SM Substandard: 0 SM</p> <p>PROJECT: Composite Aircraft Antenna Calibration Facility. (New Mission)</p> <p>REQUIREMENT: An aircraft maintenance shop specifically designed and engineered for composite aircraft antenna calibration workload is required because the Ogden Air Logistics Center at Hill AFB is designated as the Air Force Center for Industrial and Technical Excellence for composite repair work, especially with regard to F-22 fighter aircraft repair, maintenance, and modification. This antenna calibration</p>				

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5. PROGRAM ELEMENT 27138	6. CATEGORY CODE 211-154	7. RPSUID/PROJECT NUMBER 2349/KRSM143004	8. PROJECT COST (\$000) 7,100	
<p>capability is required starting in 2016. The requirement is driven by the strip and recoat of the F-22 edges during the repair cycle. The requirement will plateau in FY20-21 at approximately 26 aircraft, with 26 aircraft per year thereafter. Each of these aircraft must undergo antenna recalibration on six discreet parts (156 parts per year) to ensure airworthiness before they can be returned to their home units. Additionally, 24 antenna calibrations per year are required to support nominal fleet maintenance needs. This project is also required to test the low observable radar characteristics of the B-2 bomber flight control components, which workload has also been assigned to the Ogden Air Logistics Center.</p> <p><u>CURRENT SITUATION:</u> Currently there are no facilities on Hill AFB suitable in terms of size, electrical capacity, and with proper security to recalibrate the F-22 antenna. The work is currently being done by contractor in Marietta, GA. B-2 flight control Radar Cross Section (RCS) testing is currently being performed in Bldg 1424, which is located in an explosive clear zone of Hill AFB. RCS testing is a non-explosive mission, so the fact that it is being performed in Bldg 1424 puts it in violation of Air Force safety regulations as per Air Force Manual 91-201, but is currently operating under a waiver. The Base Weapons Safety Office has mandated that this mission be moved out of the explosive clear zone as soon as practicable. However, there is no other facility on base suitable for B-2 flight control RCS testing.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Without this project, F-22 aircraft arriving at Hill AFB for depot level repair, maintenance, and modification will need to have their antennas shipped to contracted facilities for calibration at a much higher cost than could be done in-house. A business case analysis, prepared by the 309th Aircraft Production Division at Hill AFB, showed that the estimated impact in dollars saved to the Air Force is approximately \$52M over the life of the aircraft. Continued use of the Marietta facility will also delay delivery dates for the F-22 aircraft being returned to their home units after depot, due to cross-country classified shipping requirements. Cross state shipping would also add approximately two weeks to an F-22 repair cycle. In addition, there is a risk of equipment failure at the antenna calibration lab in Marietta due to its age and complexity. The radar used in that facility is no longer produced and spare parts are becoming scarce. The contractor has estimated that a radar replacement and facility reprogramming would take approximately 2 years and cost \$3.4M. If this facility went off-line without a viable alternative in place, the fleet would be without a source of recalibration for its embedded antennas. At the current rate, that would mean up to 24 F-22s per year are at risk for being grounded due to an out of calibration antenna. Without the added benefit of this project being able to accommodate the B-2 flight control RCS mission, this mission will continue to be performed in a facility that places the workers at a certain risk due to its location in an explosive clear zone. As time goes on, the situation will become intolerable to the Base Weapons Safety Office which will likely issue a "cease and desist" order, banning further RCS test operations in Bldg 1424. If this happens, then the B-2 flight control components will need to be shipped to contracted facilities for testing at \$2M annually over in-house testing costs.</p>				

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3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH			4. PROJECT TITLE COMPOSITE AIRCRAFT ANTENNA CALIBRATION FACILITY	
5. PROGRAM ELEMENT 27138	6. CATEGORY CODE 211-154	7. RPSUID/PROJECT NUMBER 2349/KRSM143004	8. PROJECT COST (\$000) 7,100	
<p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." An economic analysis has been prepared comparing all reasonable alternatives to new construction. New construction was deemed the most cost effective alternative to meet the requirement. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in Block 9 under Supporting Facilities as, "Connection Charge to Utility Provider". Base Civil Engineer: (801) 777-7505. Composite Aircraft Antenna Calibration Facility: 1,301 SM = 14,000 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

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3. INSTALLATION AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE COMPOSITE AIRCRAFT ANTENNA CALIBRATION FACILITY	
5. PROGRAM ELEMENT 27138	6. CATEGORY CODE 211-154	7. PROJECT NUMBER 2349/KRSM143004	8. PROJECT COST (\$000) 7,100
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			355
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 APR
(6) Construction Completion			18 JUN
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
F-22 ANTENNA PROCESS EQUIPMENT	3010	2018	13,000
B-2 RADAR TEST EQUIPMENT	3010	2018	1,800
ANECHOIC MATERIAL	3010	2018	2,300
DIGITAL TOPHATS	3010	2018	300
OVERHEAD CRANE	3010	2018	25

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE F-35A MUNITIONS MAINTENANCE COMPLEX			
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 212-213	7. RPSUID/PROJECT NUMBER 2349/KRSM143003	8. PROJECT COST (\$000) 10,100		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					6,148
MUNITIONS MAINTENANCE FACILITY (212-213)		SM	1,051	4,442	(4,668)
MUNITIONS BAY ADDITION TO BLDG 988 (212-213)		SM	297	4,071	(1,209)
STORAGE ADDITION TO BLDG 988 (442-758)		SM	35	1,147	(40)
RENOVATE & MODERNIZE BLDG 988 (212-213)		SM	869	127	(110)
SUSTAINABILITY AND ENERGY MEASURES		LS			(121)
SUPPORTING FACILITIES					2,609
UTILITIES		LS			(407)
PAVEMENTS		LS			(865)
SITE IMPROVEMENTS		LS			(326)
COMMUNICATIONS SUPPORT		LS			(500)
DEMOLITION		SM	1,165	396	(462)
CONNECTION CHARGE TO UTILITY PROVIDER		LS			(50)
SUBTOTAL					8,757
CONTINGENCY (5.0%)					438
TOTAL CONTRACT COST					9,195
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					524
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					350
TOTAL REQUEST					10,070
TOTAL REQUEST (ROUNDED)					10,100)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(160
10. Description of Proposed Construction: Construct an F-35A Munitions Maintenance Complex composed of a 1,051 SM standalone three-bay munitions maintenance facility, and a 332 SM addition to Bldg 988. Project includes renovating and modernizing Bldg 988. The standalone munitions maintenance facility will include three drive-through maintenance bays and an administrative support area. The addition to Bldg 988 will include a 35 SM storage bay and a 297 SM munitions maintenance bay. All new construction will consist of reinforced concrete footings, foundations, slabs, and maintenance bay walls; insulated steel frame walls with metal siding for the storage bay addition to Bldg 988; and an insulated standing seam metal roof over both the standalone facility and the additions to Bldg 988. All maintenance bays, whether existing or new, will be equipped with 115 VAC, 60 Hz, single phase and 115 VAC, 400 Hz, three phase power and explosion proof lighting, outlets, switches, and door openers. Provide self-supporting 5-ton bridge crane in the maintenance bay addition to Bldg 988. All new construction will have fire detection/ suppression, intrusion detection, and catenary lightning protection. Bldg 988 renovation and modernization will include fiber optics for the communication system, in order to support the installation of					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH			4. PROJECT TITLE F-35A MUNITIONS MAINTENANCE COMPLEX	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 212-213	7. RPSUID/PROJECT NUMBER 2349/KRSM143003	8. PROJECT COST (\$000) 10,100	
<p>Autonomic Logistics Information System (ALIS) data terminals and server. Project includes all supporting utilities, site improvements and pavements including access roads and parking lot. Demolish three facilities for 1,165 SM. Facilities will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements, and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 40 Tons</p>				
<p>11. Requirement: 2252 SM Adequate: 0 SM Substandard: 869 SM</p> <p><u>PROJECT:</u> F-35A Munitions Maintenance Complex (New Mission)</p> <p><u>REQUIREMENT:</u> An adequately sized and configured munitions maintenance complex is required to support the beddown of seventy-two F-35 aircraft, and the associated munitions workload beginning in FY15. This project is also required to eliminate a quantity distance safety violation, in accordance with Air Force Manual (AFMAN) 91-201 Explosive Safety Standards, by adding a 1.1 explosive-rated work bay for Bldg 988 outside the 750 LF hazardous fragmentation distance from Taxiway Echo. The existing work bays in Bldg 988 will be used for either non-explosive or lower HD explosive operations. This project is also required in order to increase readiness and reduce flow time by consolidating all munitions maintenance and inspection operations at one location.</p> <p><u>CURRENT SITUATION:</u> Existing munitions work bays in Bldg 988 are too close to Taxiway echo to be able to service the 1.1 explosive-rated munitions associated with the F-35A aircraft. Currently, Bldg 988 has a Numbered Air Force-level explosive safety waiver for failing to meet DoD minimum quantity-distance separation requirements in relation to a military use-only taxiway. This violation places the F-35A beddown mission at Hill AFB at risk and must be resolved as soon as possible to preserve the installation's capabilities and to comply with the intent of AFMAN 91-201 by eliminating the violation and the risk. Bldg 988, and all other existing munitions inspection and maintenance facilities on Hill AFB, lack adequate space, electrical capacity, compressed air capacity, and roll-up door sizes to support the F-35A new mission beddown. This includes Bldg 960, a 54-year old facility where current F-16 fighter aircraft munitions maintenance operations are conducted. Other operations are conducted in temporary K-span structures (Bldgs 937 and 938) built in the 1950s for, what was then, the ICBM mission. These K-spans are in violation of the Quantity Distance Safety Standards for 1.1 explosive operations per AFMAN 91-201 and Department of Defense Explosive Safety Board (DDESB) safety standards. There are no other facilities on base that could be altered to accommodate this mission.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Without this project, the F-35A new mission beddown assigned to Hill AFB will not be able to proceed on schedule, thereby delaying the delivery of F-35A fighter aircraft to the 388th FW. Hill AFB will be left without a certified facility to inspect and maintain the modern containerized conventional 1.1 explosive-rated munitions, and the precision guided munitions associated with the F-35A fighter aircraft. F-35A aircrews will not be able to use the munitions available to them because the 388 Equipment Maintenance Squadron (EMS) will not be</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH			4. PROJECT TITLE F-35A MUNITIONS MAINTENANCE COMPLEX	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 212-213	7. RPSUID/PROJECT NUMBER 2349/KRSM143003	8. PROJECT COST (\$000) 10,100	
<p>able to conduct proper inspection and maintenance operations that ensure the safe and reliable employment of these weapons. Mission readiness and capability will be significantly degraded.</p> <p><u>ADDITIONAL:</u> This project meets applicable criteria, scope, and requirements specified in Air Force Manual (AFMAN) 32-1084, AFMAN 91-201, Air Force Instruction (AFI) 21-200, AFI 21-201, and DDESB Standards. A preliminary analysis of reasonable options to meet the requirements for this mission was conducted and included: status quo, renovation, and new construction. The conclusion was that a combination of renovating Bldg 988, together with constructing the new additions to Bldg 988 for precision guided munitions maintenance and the construction of a stand-alone three-bay facility for conventional munitions maintenance, is the only option that will meet operational requirements. An economic analysis verifying this is being performed. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in block 9 under supporting facilities as, "Connection charge to Utility Provider". Base Civil Engineer: (801) 777-7505. F-35A Munitions Maintenance Complex 1,051 SM = 11,308 SF; Munitions Bay Addition to Bldg 988 297 SM = 3196 SF; Storage addition to Bldg 988 35 SM = 377 SF; Renovate/Modernize Bldg 988 869 SM = 9,351 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH		4. PROJECT TITLE F-35A MUNITIONS MAINTENANCE COMPLEX	
5. PROGRAM ELEMENT 27142	6. CATEGORY CODE 212-213	7. PROJECT NUMBER 2349/KRSM143003	8. PROJECT COST (\$000) 10,100
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			404
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			18 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATIONS EQUIPMENT	3400	2018	125
FURNISHINGS	3400	2018	35

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911				
3. INSTALLATION AND LOCATION JOINT BASE LANGLEY - EUSTIS VIRGINIA				4. COMMAND AIR COMBAT COMMAND			5. AREA CONSTRUCTION COST INDEX 0.95				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED		TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED		CIVILIAN
a. AS OF	30-Sep-15	1392	6170	3187						700	11,449
b. END FY	2021	1356	5921	2961						700	10,938
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		3,674									
b. INVENTORY TOTAL AS OF		30-Sep-15									1,900,000
c. AUTHORIZATION NOT YET IN INVENTORY											64,800
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											59,200
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											0
f. REMAINING DEFICIENCY											28,700
g. GRAND TOTAL											2,052,700
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY						COST		DESIGN STATUS	
CODE	PROJECT TITLE				SCOPE			(\$000)		START	COMPLETE
141-454	Air Force Targeting Center				8,810 SM			45,000		06/15	09/16
211-179	Fuel System Maintenance Dock				3,392 SM			14,200		06/16	09/16
							TOTAL		59,200		
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
None											
							FUTURE PROJECTS TOTAL		0		
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL		98.3		
10. MISSION OR MAJOR FUNCTIONS											
Langley AFB is host to Headquarters Air Combat Command, a fighter wing with F-22A fighters, an airlift wing, an intelligence group, Aerospace Command and Control Intelligence, Surveillance and Reconnaissance Center (AC2ISRC), Detachment of the USAF Doctrine Center, and the Air Force Rescue Coordination Center.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL		0		

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION LANGLEY AIR FORCE BASE LANGLEY AFB SITE # 1 VIRGINIA			4. PROJECT TITLE AIR FORCE TARGETING CENTER FACILITY		
5. PROGRAM ELEMENT 27431 TIARA	6. CATEGORY CODE 141-454	7. RPSUID/PROJECT NUMBER 2479/MUHJ133000	8. PROJECT COST (\$000) 45,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					24,540
AIR FORCE TARGETTING CENTER FACILITY		SM	8,810	2,731	(24,058)
SUSTAINABILITY AND ENERGY MEASURES		LS			(482)
SUPPORTING FACILITIES					16,087
UTILITIES		LS			(2,644)
PAVEMENTS		LS			(2,013)
SITE IMPROVEMENTS		LS			(1,600)
SPECIAL FOUNDATION		LS			(3,000)
COMMUNICATIONS SUPPORT		LS			(4,500)
SOFTBALL FIELD DEMOLITION AND RELOCATION		LS			(250)
ENVIRONMENTAL		LS			(2,000)
CONNECTION CHARGE TO UTILITY PROVIDER		LS			(80)
SUBTOTAL					40,627
CONTINGENCY (5.0%)					2,031
TOTAL CONTRACT COST					42,658
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					2,432
TOTAL REQUEST					45,090
TOTAL REQUEST (ROUNDED)					45,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(10,910.0)
10. Description of Proposed Construction: Construct a new Targeting Center facility for the 25th AF utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with the DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Includes emergency generator, site improvements, special foundation ten feet above mean high tide sea level, parking, and all necessary support. Construct long-run outside plant communications and additional inside plant secure distribution support. Demolish and relocate two intramural softball fields. Air Conditioning: 600 Tons					
11. Requirement: 8810 SM Adequate: SM Substandard: 3997 SM PROJECT: Air Force Targeting Center Facility. (New Mission) REQUIREMENT: Provide a suitable facility to support AF Program Action Directive (PAD) 14-02 direction to standup new Intelligence, Surveillance and Reconnaissance Wing (ISRW), providing 24/7 mission capability for Command & Control (C2) of AF					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION LANGLEY AIR FORCE BASE LANGLEY AFB SITE # 1 VIRGINIA			4. PROJECT TITLE AIR FORCE TARGETING CENTER FACILITY	
5. PROGRAM ELEMENT 27431 TIARA	6. CATEGORY CODE 141-454	7. RPSUID/PROJECT NUMBER 2479/MUHJ133000	8. PROJECT COST (\$000) 45,000	
<p>Target and Threat Analysis and Production to meet the CSAF intent for a single reach-back targeting and threat analysis capability for USAF. Including collateral space for command sections, mission support offices, Secure Compartmented Information Facility (SCIF) space for an operations floor, training area, back shop support, unclassified information technology support, and warehouse space to accommodate new mission growth of up to 705 personnel. Required manning includes 376 existing on-base personnel, 74 relocating to Langley and an additional 255 now in the POM process. Provide functional space to collocate 363 ISRW mission crews and support personnel, mission systems, data storage/processing equipment, backup power, and unique communication capabilities to meet targeting requirements of the air components. Requirement is for in-garrison real-time, near-real-time and deliberate planning of targeting capabilities across air, space and cyber domains. Facility must include space for 1,750 workstations and associated racks, communications equipment, mechanical space, conditioned computer warehouse space, and command staff offices for Center and three Squadrons. Facility space must accommodate crew size based on number, duration and frequency of worldwide targeting and geospatial intelligence operations in support of Allied Forces. Facility must include space for operations, mission support, logistics support; and administrative support.</p> <p>CURRENT SITUATION: Beginning in FY10, mission equipment and crews moved temporarily into Facilities 326, 333, 337, 339, and 1352 spread across the base. These facilities are inadequately equipped with power, HVAC, UPS, and backup power, which has led to significant down time and mission degradation. Repairs/renovations for four of the facilities over the past 5 years cost approximately \$950K, including 3,500+ man-hours. Additional repairs (\$800K) replaced server room equipment, later destroyed when the fire suppression sprinkler system inadvertently activated. This occurred because of a failed HVAC system and faulty notification device, affecting the server room. According to Joint Base Langley-Eustis Area Development Plan (ADP), December 2013 (Contract # W91238-10-D-0041), four facilities currently being utilized for this mission are identified for demolition to expand flight line operations under the Conceptual Development Plan for Flightline West. The JBLE ADP includes the relocation of all on-base ISR assets to North Base to establish an ISR Campus. ACC/DSF previously conducted a space utilization study to address moving the 363 ISR Wing to other ACC facilities; the study concluded available space was inadequate. Collocation with DGS-1 is a key operational objective designed to facilitate daily face-to-face operational interaction and training between DCGS collection/exploitation analysts and targeting and threat analysts. This represents the total force manpower for AF Targeting operations and support, including one active duty wing, one active duty group, four active duty squadrons, and one Air Force Reserve squadron.</p> <p>IMPACT IF NOT PROVIDED: As the single targeting reach-back capability for the AF, the 363 ISRW provides a variety of services for every Combatant Command within the Department of Defense through their respective Air Components. Without the new 363 ISRW facility, increasing requirements will exceed the current capability to execute the mission due to the limited space for operators and workstations. The reach-back construct merges warfighter customer requirements with target production</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION LANGLEY AIR FORCE BASE LANGLEY AFB SITE # 1 VIRGINIA			4. PROJECT TITLE AIR FORCE TARGETING CENTER FACILITY	
5. PROGRAM ELEMENT 27431 TIARA	6. CATEGORY CODE 141-454	7. RPSUID/PROJECT NUMBER 2479/MUHJ133000	8. PROJECT COST (\$000) 45,000	
<p>unit capacity on both a dynamic and deliberate basis. This construct must have survivable command, control, and operations with adequate power, communications, and HVAC. Currently, the areas represent mission-limiting impacts on current facilities. Mission degradation will deprive theater forces of critical, real-time data needed to employ precise munitions in support operations, putting warfighters needlessly in peril, and increasing the probability of collateral damage. Additionally, if not provided, existing facilities must continue to rely on the decaying physical infrastructure that is currently unable to meet the communication, HVAC, or power requirements in support of new mission.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in the AFM 32-1084, Facility Requirement. Air Force Targeting Center Facility: 8,810 SM = 94,800 SF. Base Civil Engineer: (757) 764-2025.</p> <p>JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE LANGLEY AFB SITE # 1 VIRGINIA		4. PROJECT TITLE AIR FORCE TARGETING CENTER FACILITY	
5. PROGRAM ELEMENT 27431 TIARA	6. CATEGORY CODE 141-454	7. PROJECT NUMBER 2479/MUHJ133000	8. PROJECT COST (\$000) 45,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			20-FEB-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			22-DEC-15
(e) Date Design Complete			20-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			2,700
(b) All Other Design Costs			1,350
(c) Total			4,050
(d) Contract			3,375
(e) In-house			675
(4) Construction Contract Award			17 MAR
(5) Construction Start			17 MAY
(6) Construction Completion			19 NOV
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATIONS EQUIPMENTS	3080	2018	10,910

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION LANGLEY AIR FORCE BASE LANGLEY AFB SITE # 1 VIRGINIA		4. PROJECT TITLE FUEL SYSTEM MAINTENANCE DOCK			
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 211-179	7. RPSUID/PROJECT NUMBER 2479/MUHJ073013R1	8. PROJECT COST (\$000) 14,200		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					8,258
FUEL SYSTEM MAINTENANCE DOCK		SM	2,760	2,936	(8,103)
SUSTAINABILITY AND ENERGY MEASUERS		LS			(155)
SUPPORTING FACILITIES					4,505
UTILITIES		LS			(648)
SITE IMPROVEMENTS		LS			(420)
PAVEMENT		LS			(1,138)
COMMUNICATIONS		LS			(190)
SPECIAL FOUNDATION		LS			(1,060)
ASBESTOS ABATEMENT		LS			(95)
DEMOLITION		SM	1,567	258	(404)
RELOCATE LOX BUILDING		LS			(550)
SUBTOTAL					12,764
CONTINGENCY (5.0%)					638
TOTAL CONTRACT COST					13,402
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					764
TOTAL REQUEST					14,166
TOTAL REQUEST (ROUNDED)					14,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(70.0)
10. Description of Proposed Construction: Construct steel hangar, to include special foundation pilings, standing seam metal roof and interior finishes. Primary Facility includes electrical, static-grounded floor, plumbing, heating, compressed air system, fire detection/protection, mechanical air ventilation, fume detection, explosive-proof light fixtures and switches, wash-down drainage trenches, foam waste distribution and pump station, and special foundation ten (10) feet above high mean sea level. Relocate LOX storage structure (159 SM). Demolish one facility (1,567SM). The HVAC system, exhaust wall and door for this type facility shall be designed and constructed per Virginia Air Quality guidelines. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements, and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements, per UFC 4-010-10. Air Conditioning: 10 Tons					
11. Requirement: 2760 SM Adequate: SM Substandard: 1567 SM PROJECT: Construct Fuel System Maintenance Dock. (Current Mission) REQUIREMENT: Construct a fuel cell hangar, designed to properly accommodate two F-22A aircraft with adjoining support spaces to meet facility requirements outlined in Technical Order 1-1-3, Chapter 3, para 3.2.2 and requirements dictated by AFMAN					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION LANGLEY AIR FORCE BASE LANGLEY AFB SITE # 1 VIRGINIA			4. PROJECT TITLE FUEL SYSTEM MAINTENANCE DOCK	
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 211-179	7. RPSUID/PROJECT NUMBER 2479/MUHJ073013R1	8. PROJECT COST (\$000) 14,200	
<p>32-1084. Facility will comply with all applicable Unified Facility Criteria (UFC) and all current Engineering Technical Letters (ETL). Facility support areas will include separate shower/restroom/locker facilities for male and female personnel, a separate dispatch area with ventilation controls, two supervisor offices, a break/training room, mobility equipment storage and a separate storage area for tools and equipment. Facility must be large enough to allow concurrent maintenance operations and provide safe maneuvering space for two F-22A aircraft.</p> <p>CURRENT SITUATION: The existing fuel facility is too small and improperly configured for safe, concurrent maintenance activities on two F-22A aircraft and does not comply with Technical Order 1-1-3 exhaust requirements for maintenance and repair of aircraft integral fuel cells. Quarterly ventilation surveys have detected harmful fuel vapor concentrations in the dispatch and break rooms, caused by insufficient ventilation systems. Limited hangar space produces routine maintenance delays and fails to provide the required wing tip clearances for aircraft. Hangar doors must remain open to accommodate two aircraft and reduce worker exposure to harmful chemical fumes. Multiple tow teams must carefully maneuver aircraft (nose-first) into position within the hangar, for every maintenance cycle, to ensure wing tips do not collide. These procedures are complex and take several hours for two aircraft, and they expose maintenance personnel and aircraft to very high levels of risk. Because personnel must push back each aircraft to exit the hangar, both people and aircraft are highly vulnerable to loss in the event of a fire. Air quality surveys also reveal personnel working in aircraft fuel tanks risk an unacceptable over-exposure to Benzene. The hangar ventilation system has failed multiple times, forcing personnel to use portable purging equipment normally reserved for deployments. Locker/shower areas are too small and ill equipped to accommodate male and female personnel. Adequately sized showers and scrub sinks are necessary to eliminate the possibility of cross-contamination when personnel change from in-tank coveralls into duty uniforms. A lighting survey conducted on 30 November 2006 documented a deficiency of 70 foot-candles within maintenance work areas.</p> <p>IMPACT IF NOT PROVIDED: The reliability and safety of fuel systems maintenance for the F-22A will continue to decline and jeopardize the 1st Fighter Wing's ability to carry out its mission in an effective, safe and timely manner. Maintenance personnel will be required to continue working in hazardous and unhealthy work environments, routinely exposed to chemical fumes caused by poor ventilation. Tow teams and aircraft will remain at risk of injury, damage or loss in fire events due to complex and slow exit procedures. Continuously increased maintenance demands for critical onboard systems in these existing conditions will threaten the wing's ability to ensure on-time delivery of mission-ready F-22A aircraft.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in AF MANUAL 32-1084, Facility Requirements. An Economic Analysis was performed that recommended New Construction as the only option that will meet the 1st Fighter Wing's fuel systems maintenance requirements. Under the Repair alternative, the existing fuel cell would remain too small and improperly configured to accommodate continued fuel systems maintenance operations safely and efficiently. Base Civil Engineer: (757) 764-2025. (Fuel System Maintenance Dock: 2,760 SM = 29,698SF)</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION, SITE AND LOCATION LANGLEY AIR FORCE BASE LANGLEY AFB SITE # 1 VIRGINIA		4. PROJECT TITLE FUEL SYSTEM MAINTENANCE DOCK	
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 211-179	7. RPSUID/PROJECT NUMBER 2479/MUHJ073013R1	8. PROJECT COST (\$000) 14,200
<p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE LANGLEY AFB SITE # 1 VIRGINIA		4. PROJECT TITLE FUEL SYSTEM MAINTENANCE DOCK	
5. PROGRAM ELEMENT 27596	6. CATEGORY CODE 211-179	7. PROJECT NUMBER 2479/MUHJ073013R1	8. PROJECT COST (\$000) 14,200
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			15-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			31-MAR-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			852
(b) All Other Design Costs			426
(c) Total			1,278
(d) Contract			1,065
(e) In-house			213
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			18 SEP
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
EQUIP FROM OTHR APPROPRIATIONS	3400	2018	70

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911					
3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE WASHINGTON					4. COMMAND AIR MOBILITY COMMAND			5. AREA CONSTRUCTION COST INDEX 1.05				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-15	349	2559	567	42	309	67	281	1785	530	6,489	
b. END FY	2021	349	2559	567	42	309	67	281	1785	530	6,489	
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE		5,823										
b. INVENTORY TOTAL AS OF		30-Sep-15										3,874,001
c. AUTHORIZATION NOT YET IN INVENTORY												43,150
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)												27,000
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)												0
f. REMAINING DEFICIENCY												0
g. GRAND TOTAL												3,944,151
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)												
		CATEGORY						COST		DESIGN STATUS		
<u>CODE</u>	<u>PROJECT TITLE</u>							<u>(\$000)</u>		<u>START COMPLETE</u>		
721-313	Pipeline Dorm USAF SERE School				7,560 SM			27,000		Design Build		
							TOTAL		27,000			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)												
							FUTURE PROJECTS TOTAL		0			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL		13.0			
10. MISSION OR MAJOR FUNCTIONS												
Fairchild is home to a wide variety of units and missions. Most prominent is its air refueling mission, with two wings, one active, the 92nd Air Refueling Wing, and one Air National Guard, the 141st ARW. Other units here include the Air Force Survival, Evasion, Resistance and Escape school, medical detachments, a weapons squadron and the Joint Personnel Recovery Agency.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)												
a. Air Pollution												0
b. Water Pollution												0
c. Occupational Safety and Health												0
d. Other Environmental												0
							TOTAL		0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION FAIRCHILD AIR FORCE BASE FAIRCHILD AIR FORCE BASE SITE # 1 WASHINGTON		4. PROJECT TITLE SERE PIPELINE DORMITORY (150 RM)			
5. PROGRAM ELEMENT 85976	6. CATEGORY CODE 721-313	7. RPSUID/PROJECT NUMBER 2055/GJKZ040009	8. PROJECT COST (\$000) 27,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					19,049
DORM AM PP/PCS-STD (300 PN)		SM	7,560	2,478	(18,735)
SUSTAINABILITY & ENERGY MEASURES		LS			(314)
SUPPORTING FACILITIES					4,776
UTILITIES		LS			(952)
SITE IMPROVEMENTS		LS			(601)
PAVEMENTS		LS			(1,602)
COMMUNICATIONS		LS			(1,571)
CONNECTION CHARGE TO UTILITY PROVIDER		LS			(50)
SUBTOTAL					23,825
CONTINGENCY (5.0%)					1,191
TOTAL CONTRACT COST					25,016
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					1,426
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					953
TOTAL REQUEST					27,395
TOTAL REQUEST (ROUNDED)					27,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(2,392
10. Description of Proposed Construction: Provide 150 room, 300 bed, pipeline training student dormitory. Facility will have reinforced concrete foundations/slabs, steel frame, brick veneer exterior walls, and standing seam metal roof, complete with A/C system, parking, walkways, laundry, storage, and communications. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. Air Conditioning: 200 Tons					
11. Requirement: 7560 SM Adequate: 0 SM Substandard: 4075 SM <u>PROJECT:</u> Construct a SERE Pipeline Dormitory, (150 Room) (Current Mission) <u>REQUIREMENT:</u> Provide a dormitory facility to house 300 Survival, Evasion, Resistance, and Escape (SERE) training students in accordance with AFI 32-6005; the USAF Unaccompanied Housing Design Guide, January 2006; AFMAN 32-1084, Facility Requirements; and the 2011 Fairchild AFB Dormitory Master Plan (DMP). <u>CURRENT SITUATION:</u> The USAF SERE School has insufficient on-base housing for Pipeline students. In order to meet requirements for housing pipeline airmen, 336TRG and 92 ARW converted 256 rooms of a 436-room Survival Inn into a pipeline dormitory. The dormitory houses airmen attending 66 TRS SERE Specialist Training (SST - 6 months) and NPS airmen attending the 9 SERE courses (SST students populate this dorm during tech training, and then remain for 3-yr coded 1st duty					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION FAIRCHILD AIR FORCE BASE FAIRCHILD AIR FORCE BASE SITE # 1 WASHINGTON			4. PROJECT TITLE SERE PIPELINE DORMITORY (150 RM)	
5. PROGRAM ELEMENT 85976	6. CATEGORY CODE 721-313	7. RPSUID/PROJECT NUMBER 2055/GJKZ040009	8. PROJECT COST (\$000) 27,000	

station). Currently there is a waiver to house three students per room that is only sized for single occupancy.

IMPACT IF NOT PROVIDED: There will continue to be an insufficient number of living quarters for the students attending SERE courses. Pipeline students will be forced to billet in a facility that was not intended to be used as a dormitory. Students will continue to be housed in rooms that do not meet Air Force minimum standards. Students will continue to be exposed to greater risk by being housed in violation of Air Force standards. Survival Inn routinely runs over 100% occupancy and during peak training times could reach more than 160% occupancy. Use of other lodging options are not feasible due to transportation requirements and irregular course hours. Chief of Air Force Lodging, HQ AFSVA/SVOHL, approved double occupancy waiver and 2 AF approved triple bunking waiver to help ease demand. Additional waiver houses female SST students in lodging due to space constraints. Storage is inadequate so temporary storage solutions incur additional costs.

ADDITIONAL: Project meets the criteria/scope specified in the Air Force standards for Pipeline student configuration. The project is based on a deficit identified in the current dormitory master plan. An economic analysis of reasonable options was prepared comparing alternatives of status quo, renovation, addition/alteration, and new construction. New construction was the most effective means of providing adequate housing for the SERE students. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in block 9 under supporting facilities as, "Connection charge to Utility Provider". Base Civil Engineer: Comm: (509) 247-2291. Pipeline Dorm: 7,560 SM = 81,375 SF.

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE FAIRCHILD AIR FORCE BASE SITE # 1 WASHINGTON		4. PROJECT TITLE SERE PIPELINE DORMITORY (150 RM)	
5. PROGRAM ELEMENT 85976	6. CATEGORY CODE 721-313	7. PROJECT NUMBER 2055/GJKZ040009	8. PROJECT COST (\$000) 27,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			960
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			19 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMM EQUIPMENT	3080	2018	492
DORM FURNITURE	3400	2018	1,900

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD)				
3. INSTALLATION AND LOCATION FE WARREN AIR FORCE BASE WYOMING				4. COMMAND AIR FORCE GLOBAL STRIKE COMMAND			5. AREA CONSTRUCTION COST INDEX 1.02					
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-15	371	2157	453	0	0	0	415	2218	725	6,339	
b. END FY	2021	359	2122	454	0	0	0	403	2178	726	6,242	
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE		6,833										
b. INVENTORY TOTAL AS OF		30-Sep-15									352,855	
c. AUTHORIZATION NOT YET IN INVENTORY											95,000	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											5,550	
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											58,300	
f. REMAINING DEFICIENCY											0	
g. GRAND TOTAL											511,705	
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)												
		CATEGORY						COST		DESIGN STATUS		
<u>CODE</u>	<u>PROJECT TITLE</u>							<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>		
141-915	Missile Transfer Facility				802 SM			5,550	06/15	09/16		
							TOTAL	5,550				
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)												
141-185	Consolidated Helo/TRF Ops/AMU Alert Facility				88,486 SM			58,300				
							FUTURE PROJECTS TOTAL	58,300				
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	1.1				
10. MISSION OR MAJOR FUNCTIONS												
Francis. E. Warren Air Force Base is home to the 90th Missile Wing (MW) and Headquarters, 20th Air Force of Air Force Global Strike command. The mission of the 90th MW is to defend America with the world's premier combat-ready Intercontinental Ballistic Missile (ICBM) force. The 90th MW operates 150 Minuteman III ICBMs on full alert and maintains the missile fields across a 12,600-square-mile area in Wyoming, Nebraska, and Colorado. The wing also operates 9 UH-1N Huey helicopters that perform nuclear convoy security and missile site support.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)												
a. Air Pollution											0	
b. Water Pollution											0	
c. Occupational Safety and Health											0	
d. Other Environmental											0	
							TOTAL	0				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION FRANCIS E WARREN AIR FORCE BASE F E WARREN AFB SITE # 1 WYOMING		4. PROJECT TITLE MISSILE TRANSFER FACILITY			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-915	7. RPSUID/PROJECT NUMBER 1833/GHLN083004	8. PROJECT COST (\$000) 5,550		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					4,079
CONSTRUCT NEW MISSILE TRANSFER FAC		SM	802	4,986	(3,999)
SUSTAINABILITY AND ENERGY MEASURES		LS			(80)
SUPPORTING FACILITIES					920
DEMOLISH EXISTING FACILITY		SM	452	288	(130)
SITE IMPROVEMENTS		LS			(125)
PAVEMENTS		LS			(150)
UTILITIES		LS			(395)
PASSIVE FORCE PROTECTION MEASURES		LS			(70)
CONNECTION CHARGE TO UTILITY PROVIDER		LS			(50)
SUBTOTAL					4,999
CONTINGENCY (5.0%)					250
TOTAL CONTRACT COST					5,249
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)					299
TOTAL REQUEST					5,548
TOTAL REQUEST (ROUNDED)					5,550
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(56.0)
10. Description of Proposed Construction: Project will construct a replacement facility with associated site work, pavement and utilities. Scope will include maintenance/missile stage transfer-work bays, administrative, tool storage, and restroom facilities, upgrade pavement, interior lighting, heating, ventilation, and security fencing to extend the serviceability for Minuteman III (MMIII) Intercontinental Ballistic Missile (ICBM) Missile Handling Team/Missile Life Extension (MHT/MLE) handling operations. Construction to include concrete block with a standing seam metal roof, HVAC, and electrical distribution and will be constructed in accordance with Air Force Design Guide criteria, installation architectural standards. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. Construction will meet requirements for essential facility system nuclear design certification.					
Air Conditioning: 50 Tons					
11. Requirement: 802 SM Adequate: 0 SM Substandard: 452 SM					
PROJECT: MISSILE TRANSFER FACILITY (Current Mission)					
REQUIREMENT: An adequately sized and configured Missile Operations Transfer Facility to provide proper processing of missile booster downstages which may require temporary storage during processing for shipment, maintenance, or					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION FRANCIS E WARREN AIR FORCE BASE F E WARREN AFB SITE # 1 WYOMING			4. PROJECT TITLE MISSILE TRANSFER FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-915	7. RPSUID/PROJECT NUMBER 1833/GHLN083004	8. PROJECT COST (\$000) 5,550	
<p>reciprocal installation at a missile launch facility.</p> <p>CURRENT SITUATION: F. E. Warren supports the Missile Alert and Launch Facilities for 150 MMIII sites in three states. The existing facility is used to process missile booster downstages for shipment, maintenance or installation at a missile site and transfer missile booster sections between silo extraction vehicles to secure shipment vehicles used to transport booster sections for Depot level maintenance and/or test sites. Current facility is a 51 year old Cold-War asset that is beyond its economic life expectancy and cannot accommodate simultaneous in/out operations due to a single drive lane which is too narrow to accommodate side by side missile transport vehicles. There is no command and control center, office or locker space, and limited amounts of storage for required tools and equipment. Heating, ventilation, and utility systems are antiquated and frequently break down. Parts for these systems are scarce and difficult to procure. There is no fire suppression system which presents a fire hazard when portable heaters are needed to supplement the heating system to maintain a working temperature. These portable units also cause ventilation problems requiring exterior doors to be opened. There are problems with falling insulation, roof leaks and an outdated electrical system. A functional missile transfer facility is required to execute approximately 350 missile booster transfer operations per year.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided continued safety and work efficiency of this critical Nuclear Sustainment Enterprise (NSE) mission will negatively impact the mission. Failure to replace this facility will result in continued mission constraint and further degradation the NSE Nuclear Assurance and Security responsibility mission. The Air Force has stated Nuclear Assurance and Security are our primary responsibility to include safety and security of our nuclear arsenal, as well as maintenance, storage, and transport of nuclear assets.</p> <p>ADDITIONAL: This project exceeds scope/criteria for Missile Operations Facilities as established by Air Force Manual 32-1084. The size identified is larger to accommodate larger transport vehicles currently in use and provide increased space necessary to alleviate safety discrepancies and work around conditions required for mission operation. The new facility configuration allows simultaneous inbound and outbound missile transfer operations and a mock up area for training/certification without interrupting transfer operations. An Economic Analysis (EA) was performed. The EA evaluated reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements: New Construction. Connection charge under FAR Part 41 for utility provider to install required connecting facilities, which the provider will own, operate, and maintain as part of their privately owned system. The utility connection charge is included as Lump Sum in block 9 under supporting facilities as, "Connection charge to Utility Provider". Base Civil Engineer: Commercial (307) 773-3600. MISSILE TRANSFER FACILITY, 802 SM = 8624 SF. Demolition: 452 SM = 4,864 SF.</p> <p>JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION FRANCIS E WARREN AIR FORCE BASE F E WARREN AFB SITE # 1 WYOMING		4. PROJECT TITLE MISSILE TRANSFER FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-915	7. PROJECT NUMBER 1833/GHLN083004	8. PROJECT COST (\$000) 5,550
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			18-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			10-FEB-16
(e) Date Design Complete			08-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			333
(b) All Other Design Costs			167
(c) Total			500
(d) Contract			416
(e) In-house			83
(4) Construction Contract Award			17 MAR
(5) Construction Start			17 APR
(6) Construction Completion			19 SEP
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE, FIXTURES, EQUIPMENT	3400	2018	56

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1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20150911					
3. INSTALLATION AND LOCATION ROYAL AUSTRALIAN AIR FORCE DARWIN AUSTRALIA					4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 1.49				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-15	N/A	See Note 1								0	
b. END FY	2021	N/A									0	
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE		0										
b. INVENTORY TOTAL AS OF		30-Sep-15										0
c. AUTHORIZATION NOT YET IN INVENTORY												0
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)												30,400
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)												35,000
f. REMAINING DEFICIENCY												0
g. GRAND TOTAL												65,400
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)												
CATEGORY						COST	DESIGN STATUS					
<u>CODE</u>	<u>PROJECT TITLE</u>					<u>SCOPE</u>	<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>			
113-321	APR - Expand Parking Apron					37,974 SM	28,600	06/15	09/16			
218-712	APR - Aircraft MX Support Facility					557 SM	1,800	06/15	09/16			
						TOTAL	30,400					
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)												
411-135	APR - Bulk Fuel Storage Tanks					15,899 CF	35,000					
						TOTAL	35,000					
R&M UNFUNDED REQUIREMENT (\$M)						TOTAL	0					
10. MISSION OR MAJOR FUNCTIONS												
The USAF proposes to improve an existing airport by expanding the parking apron, adding bulk fuel storage tanks, and building an aircraft maintenance support facility to increase mil-to-mil cooperation between US-AUS via combined military exercise/limited USAF presence at RAAF Darwin.												
Note 1: No personnel will be permanently assigned to this location.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)												
a. Air Pollution												0
b. Water Pollution												0
c. Occupational Safety and Health												0
d. Other Environmental												0
						TOTAL	0					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION RAAF BASE DARWIN AUSTRALIA		4. PROJECT TITLE APR AIRCRAFT MAINTENANCE SUPPORT FACILITY			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 218-712	7. RPSUID/PROJECT NUMBER /PAF150500	8. PROJECT COST (\$000) 1,800		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITY					879
AIRCRAFT MAINTENANCE SUPPORT FACILITY		SM	557	1,548	(862)
SUSTAINMENT AND ENERGY MEASURES		LS			(17)
SUPPORTING FACILITIES					751
SITE IMPROVEMENTS		LS			(50)
PAVEMENT		SM	1,780	205	(365)
UTILITIES		LS			(107)
COMMUNICATION		LS			(79)
ENVIRONMENTAL REMEDIATION		LS			(150)
SUBTOTAL					1,630
CONTINGENCY (5.0%)					82
TOTAL CONTRACT COST					1,712
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					111
TOTAL REQUEST					1,823
TOTAL REQUEST (ROUNDED)					1,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(10.0)
<p>10. Description of Proposed Construction: Construct an aircraft maintenance support facility using conventional design and construction methods to accommodate the mission of the facility. Work includes, but is not limited to construction of a slab-on-grade concrete foundation, pre-engineered steel frame, concrete masonry unit walls, and corrugated metal roof. The building will include electrical outlets; lighting fixtures; panel boards; plumbing with energy and water efficient fixtures; heat detection system; fire sprinkler system; communication systems; and all necessary utility connections to base infrastructure. Supporting facilities include a concrete apron to maneuver and stage AGE, asphalt access drive for emergency vehicles, water supply, sanitary sewer to include 2,000 gal septic tank, electrical distribution, communications, mechanical ventilation, and storm drainage. The project also includes possible environmental remediation of buried asbestos caused by past cyclone events. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>					
11. Requirement: 557 SM Adequate: 0 SM Substandard: 0 SM					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAAF BASE DARWIN AUSTRALIA			4. PROJECT TITLE APR AIRCRAFT MAINTENANCE SUPPORT FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 218-712	7. RPSUID/PROJECT NUMBER /PAF150500	8. PROJECT COST (\$000) 1,800	
<p>PROJECT: Construct an aircraft maintenance support facility. (New Mission).</p> <p>REQUIREMENT: This Asia-Pacific Resiliency (APR) project provides an adequately sized and configured maintenance facility required to support flight line maintenance operations of up to eight aircraft. The building is required to store pre-deployed aerospace-ground equipment (AGE) during inactive periods and to serve as a hub for flightline aircraft maintenance during exercises. Deployed aircraft maintainers will use the building to store and manage their tool kits and Mobile Readiness Spares Package (MRSP). The facility will provide adverse weather protection for maintenance personnel, equipment, and aircraft spares. Design requirements conform with AFM 32-1084 (20 April 2012) and UFC 4- 440-01a, Storage Depots (01 March 2005). The maintenance support facility includes a high bay open storage area and 2 restrooms for a total of 557 SM (6,000 SF).</p> <p>CURRENT SITUATION: There are no available facilities at RAAF Base Darwin that can be used to support the maintenance and storage requirements of USAF AGE and maintenance equipment to support deployed eight aircraft during bilateral training exercises.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, the AGE needed by deployed aircraft will not be available to support them. In addition, the deployed aircraft maintenance personnel will not have a location from which to base their operations and set up their tool kits and MRSPs. Without the maintenance facility, equipment, aircraft spares, and personnel will lack the protection needed from potentially severe weather. Lack of this facility would significantly reduce readiness, and could result in degradation of operational capability, and may increase potential for a serious mishap. Therefore, the location will not have the capability to fully meet bilateral training exercise mission requirements.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in AFMAN 32-1084, "Facility Requirements." Since the project cost is less than \$2M, an Economic Analysis is not required for this project. The initial cost estimate for this project is within DoD Pricing Guide parameters modified to account for the higher area cost factor at Darwin, Northern Territory, Australia. Project Engineer: 808-448-2459. Aircraft Maintenance Support Facility 557 SM = 6,000 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: AUSI-DOLLAR 1.0264</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAAF BASE DARWIN AUSTRALIA		4. PROJECT TITLE APR AIRCRAFT MAINTENANCE SUPPORT FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 218-712	7. PROJECT NUMBER /PAF150500	8. PROJECT COST (\$000) 1,800
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			05-OCT-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			
* (d) Date 35% Designed			
(e) Date Design Complete			09-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			108
(b) All Other Design Costs			54
(c) Total			162
(d) Contract			135
(e) In-house			27
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			18 JUN
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS AND COMM EQUIPMENT	3400	2017	10

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION RAAF BASE DARWIN AUSTRALIA			4. PROJECT TITLE APR EXPAND AIRCRAFT PARKING APRON		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 113-321	7. RPSUID/PROJECT NUMBER /PAF150400	8. PROJECT COST (\$000) 28,600		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					24,506
APRON (CAT CODE 113-321)		SM	37,974	570	(21,645)
FUEL SYSTEM UPGRADES (CAT CODE 121-122)		EA	4	595,000	(2,380)
SUSTAINMENT AND ENERGY MEASURES		LS			(481)
SUPPORTING FACILITIES					1,167
UTILITIES		LS			(241)
SITE IMPROVEMENTS		LS			(183)
STORM DRAINAGE		LS			(548)
COMMUNICATIONS		LS			(45)
ENVIRONMENTAL REMEDIATION		LS			(150)
SUBTOTAL					25,673
CONTINGENCY (5.0%)					1,284
TOTAL CONTRACT COST					26,956
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					1,752
TOTAL REQUEST					28,708
TOTAL REQUEST (ROUNDED)					28,600
10. Description of Proposed Construction: Construct aircraft parking apron expansion, construct 4 Type III hydrant fuel pits, and relocated existing fuel isolation valve pits using conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 0 Tons					
11. Requirement: 37974 SM Adequate: 0 SM Substandard: 0 SM					
PROJECT: Expand aircraft parking apron and add refueling capacity. (New Mission). REQUIREMENT: This project will extend existing Bomber Replenishment Area (BRA) to add 4 additional parking spots with underground jet fuel hydrant system to support up to eight aircraft participating in bilateral training exercises at RAAF Base Darwin. Work includes construction of four additional airfield rated concrete paved parking spots with asphalt shoulders; installation of 4 additional Type III fuel hydrant pit connected to existing fuel line; and relocation of existing fuel isolation valve pit. Supporting facilities include installation of taxiway, apron					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAAF BASE DARWIN AUSTRALIA			4. PROJECT TITLE APR EXPAND AIRCRAFT PARKING APRON	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 113-321	7. RPSUID/PROJECT NUMBER /PAF150400	8. PROJECT COST (\$000) 28,600	
<p>and taxiway lights, stormwater system to include an Oil-Water separator, jet blast deflector, and construction of an asphalt access drive. This project includes possible remediation of buried asbestos contaminated materials from past cyclone events.</p> <p>CURRENT SITUATION: The current aircraft parking apron at RAAF Base Darwin is constructed to accommodate C-130 aircraft and smaller sized bomber aircraft, and is incapable of parking and refueling the necessary eight aircraft simultaneously. As currently constructed, the apron can park and fuel 4 aircraft in accordance with Air Force standards, with very limited aircraft throughput. The present configuration will also not allow effective and safe taxi of more than 4 aircraft. This project will expand the parking apron to accommodate the required 8 aircraft. Expansion of the existing Bomber Replenishment Apron (BRA) apron is the only option to safely park and effectively refuel 8 aircraft.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, the Bomber Replenishment Apron will be incapable of parking and refueling eight aircraft critical in air-to-air refueling of deployed aircraft attending bilateral exercises in Australia. The inability to provide air refueling capability drastically decreases power projection and global reach capabilities to support bilateral theater security operations and exercises in the Asia-Pacific region to include Australia.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirement, 20 April 2012. A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs; therefore, a complete economic analysis was not performed and a request for waiver has been submitted and approved. The initial cost estimate for this project is within DoD Pricing Guide parameters modified to account for the higher area cost factor at Darwin, Northern Territory, Australia. Project Engineer: 808-448-2459. Apron: 37,974 SM = 408,749SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: AUSI-DOLLAR 1.0264</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAAF BASE DARWIN AUSTRALIA		4. PROJECT TITLE APR EXPAND AIRCRAFT PARKING APRON	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 113-321	7. PROJECT NUMBER /PAF150400	8. PROJECT COST (\$000) 28,600
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started		30-OCT-15	
(b) Parametric Cost Estimates used to develop costs		YES	
* (c) Percent Complete as of 01 JAN 2016		10%	
* (d) Date 35% Designed		29-FEB-16	
(e) Date Design Complete		30-SEP-16	
(f) Energy Study/Life-Cycle analysis was/will be performed		YES	
(2) Basis:			
(a) Standard or Definitive Design -		NO	
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):		(\$000)	
(a) Production of Plans and Specifications		1,716	
(b) All Other Design Costs		858	
(c) Total		2,574	
(d) Contract		2,145	
(e) In-house		429	
(4) Construction Contract Award		17 FEB	
(5) Construction Start		17 MAR	
(6) Construction Completion		19 JUN	
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations: N/A			

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20150911			
3. INSTALLATION AND LOCATION (Unspecified) COMMONWEALTH OF NORTHERN MARIANA ISLANDS				4. COMMAND PACIFIC AIR FORCES				5. AREA CONSTRUCTION COST INDEX 2.42			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	N/A	See Note 1								0
b. END FY	2021	N/A									0
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		0									
b. INVENTORY TOTAL AS OF		30-Sep-15									0
c. AUTHORIZATION NOT YET IN INVENTORY											29,300
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											9,000
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											77,500
f. REMAINING DEFICIENCY											0
g. GRAND TOTAL											115,800
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY				COST		DESIGN STATUS			
<u>CODE</u>	<u>PROJECT TITLE</u>			<u>SCOPE</u>	<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>				
911-146	APR - Land Acquisition, CNMI			17.5 AC	9,000	06/15	09/16				
					TOTAL	9,000					
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
113-321 APR - Parking Apron Type III Hydrant				32,308 SM	50,000						
411-135 APR - Port POL System				15,900 SM	27,500						
					TOTAL	77,500					
R&M UNFUNDED REQUIREMENT (\$M)					TOTAL	0					
10. MISSION OR MAJOR FUNCTIONS											
The USAF proposes to improve infrastructure and military training facilities in support of Air Operations for divert, training exercise, and natural disaster response in the Commonwealth of Northern Mariana Islands.											
Note 1: No personnel will be permanently assigned to this location.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
					TOTAL	0					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION UNSPECIFIED LOCATION COMMONWEALTH OF NORTHERN MARIANA ISLANDS		4. PROJECT TITLE APR LAND ACQUISITION			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 911-146	7. RPSUID/PROJECT NUMBER /PAF160300	8. PROJECT COST (\$000) 9,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					8,050
LAND ACQUISITION		HA	7.1	1,135,000	(8,050)
SUPPORTING FACILITIES					0
SUBTOTAL					8,050
CONTINGENCY (5.0%)					403
TOTAL CONTRACT COST					8,453
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					549
TOTAL REQUEST					9,002
TOTAL REQUEST (ROUNDED)					9,000
10. Description of Proposed Construction: Acquires approximately 7.1 hectares of land (in fee or long-term lease) for the construction of Air Force military training facilities and infrastructure in support of Air Operations for divert, training exercises, and natural disaster response. Non-contiguous land parcels are to be acquired from the Commonwealth of Northern Mariana Islands (CNMI) through the Commonwealth Port Authority. Air Conditioning: 0 Tons					
11. Requirement: HA Adequate: HA Substandard: HA PROJECT: Asia-Pacific Resiliency (APR) Land Acquisition (New Mission). REQUIREMENT: The Air Force will acquire land either in fee or by long term lease for the construction of Air Force military training facilities and infrastructure in support of Air Operations for divert, training exercise, and natural disaster response in the CNMI. The cost to lease the required land interest is approximately \$1,135,000 per hectare for a long-term lease (in excess of 25 years) versus \$450,000 per hectare to acquire by fee. The Air Force is prepared to lease the property at a higher cost in order to conform to the policy stated in the 1976 Covenant between CNMI and the United States to acquire only the minimum real property interest necessary to meet the mission requirement, which in this case is a lease. However, the Air Force is willing to purchase by fee if the CNMI government is willing to sell it. CURRENT SITUATION: The Air Force is evaluating several options for the Divert and Exercise Mission within the CNMI. Regardless of which option is selected as the final option, existing federally leased land in CNMI does not include land parcels required for facilities and infrastructure supporting construction and operational requirements in connection with the Divert and Exercise Mission within the CNMI. Therefore, acquisition of non-Federal land in fee or by long term lease is required at the subject location. This project allows NAVFACPAC to begin land acquisition discussions for the entire DoD requirement, with initial emphasis for the Air Force Requirement. This project is the first installment of a larger land acquisition package to enable future beddowns to occur within the CNMI. It is important to					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION UNSPECIFIED LOCATION COMMONWEALTH OF NORTHERN MARIANA ISLANDS			4. PROJECT TITLE APR LAND ACQUISITION	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 911-146	7. RPSUID/PROJECT NUMBER /PAF160300	8. PROJECT COST (\$000) 9,000	
<p>begin negotiations now and pursue a phased approach because land acquisition discussions could take 12 to 18 months to complete.</p> <p>IMPACT IF NOT PROVIDED: Without securing rights for the needed land parcels, none of the projects that support the Divert and Exercise Mission within CNMI can be constructed. Initial Air Operations capability cannot be achieved until these facilities are constructed, depriving the Air Force of this much-needed operational capability.</p> <p>HISTORY OF BASE BOUNDARY: N/A</p> <p>LONG TERM REAL ESTATE: Land acquisition estimated costs are based on a Navy real estate survey of comparable land parcels to obtain the most current market values.</p> <p>APR Land Acquisition: 7.1 Hectares = 17.5 Acres.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION UNSPECIFIED LOCATION COMMONWEALTH OF NORTHERN MARIANA ISLANDS		4. PROJECT TITLE APR LAND ACQUISITION	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 911-146	7. PROJECT NUMBER /PAF160300	8. PROJECT COST (\$000) 9,000
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <p>(a) Date Design Started N/A</p> <p>(b) Parametric Cost Estimates used to develop costs N/A</p> <p>* (c) Percent Complete as of 01 JAN 2016 N/A</p> <p>* (d) Date 35% Designed N/A</p> <p>(e) Date Design Complete N/A</p> <p>(f) Energy Study/Life-Cycle analysis was/will be performed N/A</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - N/A</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <p>(a) Production of Plans and Specifications N/A</p> <p>(b) All Other Design Costs N/A</p> <p>(c) Total N/A</p> <p>(d) Contract N/A</p> <p>(e) In-house N/A</p> <p>(4) Construction Contract Award 17 FEB</p> <p>(5) Construction Start 17 MAR</p> <p>(6) Construction Completion 18 SEP</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>			

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD)			
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE GERMANY				4. COMMAND UNITED STATES AIR FORCES IN EUROPE			5. AREA CONSTRUCTION COST INDEX 1.13				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	1284	5674	2624	0	0	0	137	1096	200	11,015
b. END FY	2021	1193	5337	2605	0	0	0	139	1152	200	10,626
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		5,061									
b. INVENTORY TOTAL AS OF		30-Sep-15		8,394,658							
c. AUTHORIZATION NOT YET IN INVENTORY		135,400									
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)		13,438									
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018 - 2021)		21,600									
f. REMAINING DEFICIENCY		770,400									
g. GRAND TOTAL		9,335,496									
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
CATEGORY		PROJECT TITLE		SCOPE		COST (\$000)		DESIGN STATUS			
<u>CODE</u>						<u>(\$000)</u>		<u>START</u>	<u>COMPLETE</u>		
141-753	37 AS Squadron Operations/AMU			3,561 SM		13,438		10/15	03/17		
						TOTAL		13,438			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)											
211-159	C-130J Corrosion Ctrl. Hgr/Washrack			4,850 SM		21,600					
						TOTAL		21,600			
R&M UNFUNDED REQUIREMENT (\$M)						TOTAL		83.5			
10. MISSION OR MAJOR FUNCTIONS											
Home of the 86th Airlift Wing, Headquarters US Air Forces in Europe, 3rd AF, 17th AF, as well as the NATO Headquarters Air North. Ramstein AB is the central airlift hub for strategic and tactical airlift within the European theater. The wing's mission is the operation and maintenance of airlift assets composed of C-130s for tactical airlift, a C-40, C-20s & C-21s for DV airlift throughout Europe, Africa, and the Middle East.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - 2021)											
a. Air Pollution		0									
b. Water Pollution		0									
c. Occupational Safety and Health		0									
d. Other Environmental		0									
						TOTAL		0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE # 1 GERMANY		4. PROJECT TITLE CONSTRUCT AIRCRAFT SQUADRON OPERATIONS/AMU FACILITY			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-753	7. RPSUID/PROJECT NUMBER 3206/TYFR013010	8. PROJECT COST (\$000) 13,437		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
AIRCRAFT SQUADRON OPERATIONS FACILITY					10,279
SQ OPS FACILITY (141-753)		SM	3,561	2,830	(10,078)
SUSTAINABILITY AND ENERGY MEASURES (2%)		LS			(202)
SUPPORTING FACILITIES					1,738
UTILITIES		LS			(324)
PAVEMENTS		LS			(217)
ENVIRONMENTAL SUPPORT		LS			(40)
EXTERIOR COMMUNICATION SUPPORT		LS			(240)
DEMOLITION		SM	1,762	400	(705)
SITE DEVELOPMENT		LS			(212)
SUBTOTAL					12,017
CONTINGENCY (5.0%)					601
TOTAL CONTRACT COST					12,618
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					820
TOTAL REQUEST					13,438
TOTAL REQUEST (ROUNDED)					13,437
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(771.0)
10. Description of Proposed Construction: Scope is for the construction of all necessary primary and supporting facilities which will result in a fully operational squadron operations/aircraft maintenance facility for tactical transport aircraft. A two-story structure with reinforced concrete foundation and floor slabs, masonry walls and roof system. Provides space for offices, briefing rooms, flight planning/operations, life support storage/issue room and other areas for classified open storage. Scope also includes demolition of building 2019 & 2511, site development & environmental support for site remediation, fire suppression, communication support, pavements, all utilities and other necessary support. Work must be in compliance with current US Air Force and German regulations. The building construction will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements, German regulations and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 15 Tons					
11. Requirement: 3561 SM Adequate: 0 SM Substandard: 3647 SM					
PROJECT: Construct Airlift Squadron Operations/AMU Facility (Current Mission)					
REQUIREMENT: A fully functional and properly configured consolidated Squadron Operations/Aircraft Maintenance Unit Facility is required for administration, scheduling, training, briefing and equipment storage for aircrew members and					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE # 1 GERMANY			4. PROJECT TITLE CONSTRUCT AIRCRAFT SQUADRON OPERATIONS/AMU FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-753	7. RPSUID/PROJECT NUMBER 3206/TYFR013010	8. PROJECT COST (\$000) 13,437	
<p>maintenance personnel to carry out efficiently and effectively the mission of this busiest and largest USAFE C-130J flying squadron. The 37th Airlift Squadron is the primary unit for all tactical airlift missions within Europe, Africa and the Middle East arena, as well as for all contingency support and humanitarian relief operations. This project is a vital piece for the consolidation of all tactical flying operations around the newly constructed C-130 parking apron, two-bay hangar, parts store and C-130J Flight Simulator just recently completed.</p> <p>CURRENT SITUATION: The operations and maintenance functions currently operate out of five dispersed facilities of which the largest portion is located in a one and a half story addition to aircraft maintenance hangar. Present split operations make it difficult working as one team, also room configurations and sizes do not provide sufficient and efficient workspace to accomplish the assigned mission. A crew bus is used to transit loadmasters and pilots to the aircraft, as well as transit all crew members back to squadron again. The existing operations and briefing rooms are crowded in undersized and non-ventilated rooms, especially in the second floor, which is constructed directly under the roof with sloped ceilings and limited useable space. Most of the buildings used by the maintenance function are too small and deteriorating, some of them neither have adequate heating, nor restrooms. In addition the life support function is located about three miles across the flight-line, generating a 40 minute driving requirement around the runway ends.</p> <p>IMPACT IF NOT PROVIDED: Operations and maintenance personnel will not be able to work together as one unified team and as a result, maximum mission effectiveness will not be realized. Lack of adequate briefing rooms, offices, storage and other operational facilities will seriously impact the operational capability and efficiency of the C-130J flying crews. Due to the dispersed locations, the time to prepare and review missions will be excessive, while the quality of planning and mission analysis suffers accordingly. In addition the bus transportation requirements for aircrews and maintainers from and to the parking apron will continue to exist putting an additional burden on the 86 Logistics Group. This will have a direct negative impact on mission accomplishment.</p> <p>ADDITIONAL: Project is potentially eligible for NATO funding and therefore a pre-financing statement has been submitted to the NATO Office of Resources (NOR) to be included into CP 9A0951 in the amount of EURO 3.5 million for consideration. This project meets the criteria/scope specified in AFMAN 32-1084, "Facility Requirements." A certificate of exception is being prepared. Force protection measures are considered IAW USAF Installation Protection Guide. Existing space in Hangar 1 (Bldg 2291) will be used to consolidate the 76th Airlift Squadron which provides operational support and distinguished visitor airlift throughout the theater and is currently located on other side of airfield, bringing DV access to operational side of airfield. This will enable the 86 AW to consolidate all flying operations north of the runway, eliminating maintenance intensive taxiway infrastructure, decreasing future maintenance expenses. All known alternatives were considered during the development of this project. A preliminary economic analysis has been performed, indicating that new construction is the most favorable option.</p> <p>SQ OPS/AMU: 3,561 SM = 38,316 SF</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE # 1 GERMANY			4. PROJECT TITLE CONSTRUCT AIRCRAFT SQUADRON OPERATIONS/AMU FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-753	7. RPSUID/PROJECT NUMBER 3206/TYFR013010	8. PROJECT COST (\$000) 13,437	
<p>BCE Phone: 314-480-5007</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .899</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE # 1 GERMANY		4. PROJECT TITLE CONSTRUCT AIRCRAFT SQUADRON OPERATIONS/AMU FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-753	7. PROJECT NUMBER 3206/TYFR013010	8. PROJECT COST (\$000) 13,437
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			30-OCT-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			95%
* (d) Date 35% Designed			25-MAR-16
(e) Date Design Complete			31-MAR-17
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			YES
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			806
(b) All Other Design Costs			403
(c) Total			1,209
(d) Contract			1,008
(e) In-house			202
(4) Construction Contract Award			17 AUG
(5) Construction Start			17 SEP
(6) Construction Completion			19 APR
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
RADIO EQUIPMENT	3400	2018	150
LAN EQUIPMENT	3400	2018	80
TELEPHONES	3400	2018	106
FURNISHINGS	3400	2018	400
IDS EQUIPMENT	3400	2018	35

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD)			
3. INSTALLATION AND LOCATION SPANGDAHLEM GERMANY					4. COMMAND UNITED STATES AIR FORCES IN EUROPE			5. AREA CONSTRUCTION COST INDEX 1.17			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	390	3597	830	0	0	0	0	0	5207	10,024
b. END FY	2021	450	3800	850	0	0	0	0	0	6200	11,300
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		1613									
b. INVENTORY TOTAL AS OF		30-Sep-15									4,010,661
c. AUTHORIZATION NOT YET IN INVENTORY											0
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											43,465
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)											28,000
f. REMAINING DEFICIENCY											0
g. GRAND TOTAL											4,082,126
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
CATEGORY						COST	DESIGN STATUS				
<u>CODE</u>	<u>PROJECT TITLE</u>					<u>SCOPE</u>	<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>		
812-225	EIC - Site Development and Infrastructure					0 SM	43,465	09/15	12/16		
						TOTAL	43,465				
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)											
422-265	Munitions Flow Through Facility					0 SM	3,000				
721-312	Construct Dormitory (144 PN)					5,472 SM	25,000				
						TOTAL	28,000				
R&M UNFUNDED REQUIREMENT (\$M)						TOTAL	1.3				
10. MISSION OR MAJOR FUNCTIONS											
A USAFE installation that is home to the largest fighter operation in Germany. In addition, Spangdahlem AB is the home of the 726 Air Mobility Squadron. A host Fighter Wing commands one fighter squadron flying F-16 C&Ds, an air control squadron and an air mobility squadron flying C-17 and other larger cargo planes.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
						TOTAL	0				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY			4. PROJECT TITLE EIC - SITE DEVELOPMENT AND INFRASTRUCTURE		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 812-225	7. RPSUID/PROJECT NUMBER 3298/VYHK173001	8. PROJECT COST (\$000) 43,465		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					15,933
ELECTRICAL UTILITIES (812225)		LM	2,000	3,166	(6,332)
WATER UTILITIES (841161)		LM	1,950	1,400	(2,730)
STORMWATER UTILITIES (871183)		LM	2,000	828	(1,656)
WASTE WATER UTILITIES (832255/66)		LM	2,000	1,007	(2,014)
ROADWAY PAVEMENTS (851147)		SM	15,750	85	(1,339)
EXTERIOR AREA LIGHTING (812926)		LM	3,250	8	(26)
COMMUNICATIONS (135101/583)		LM	1,800	1,020	(1,836)
SUPPORTING FACILITIES					22,939
SITE PREPARATION		LS			(15,621)
LANDSCAPE AND SIDEWALKS		LS			(1,275)
DEMOLITION - PAVEMENT		LS			(3,060)
DEMOLITION - BUILDING		LS			(670)
DEMOLITION - UTILITY		LS			(1,563)
PASSIVE FORCE PROTECTION MEASURES		LS			(750)
SUBTOTAL					38,872
CONTINGENCY (5.0%)					1,944
TOTAL CONTRACT COST					40,815
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					2,653
TOTAL REQUEST					43,468
TOTAL REQUEST (ROUNDED)					43,465
10. Description of Proposed Construction: Work includes all subgrade and subbase preparation, drainage, fencing, area lighting, and other necessary airfield and campus support. Project provides new campus access roadways, utilities, site improvements, communications, and realignment of existing infrastructure. The project also includes demolition of existing airfield pavements and other site horizontal structures, mitigation as required for possible unexploded ordnance (UXO), and construction of roadway entrances into the campus area. The overall site and utility requirements identified are all in support of the construction of an aircraft parking apron with associated taxiways and shoulders required to accommodate CV-22 and MC-130J aircraft, MC-130J Two-Bay Hangar/AMU, CV-22 Three-Bay Hangar/AMU, 2-Bay Maintenance Support Hangar, Headquarters Building, Special Operations Support Squadron Facility, CV-22 & MC-130J Simulator Facility, Parachute Drying Tower, CV-22 & MC-130J Squadron Operations Facility, and Special Tactics Facility. It is proposed that offsite roadway improvements in the form of an oblong roundabout will be constructed to improve the overall traffic situation at the main entrance road into the campus facility. Finally, a secondary roadway entrance will be constructed off of Langley Road to provide an additional access point into the					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY			4. PROJECT TITLE EIC - SITE DEVELOPMENT AND INFRASTRUCTURE	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 812-225	7. RPSUID/PROJECT NUMBER 3298/VYHK173001	8. PROJECT COST (\$000) 43,465	
<p>campus. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 0 Tons</p>				
<p>11. Requirement: 0 SM Adequate: 0 SM Substandard: 0 SM</p> <p>PROJECT: Site Development & Infrastructure (New Mission)</p> <p>REQUIREMENT: Adequate facilities and infrastructure properly sized and configured to support the relocation of the 352 SOW to from RAF Mildenhall to Spangdahlem AB in support of the European Infrastructure Consolidation (EIC) effort. Facilities must support the 352 SOW's mission to plan and perform specialized operations using advanced aircraft, tactics and air refueling techniques to transport and resupply military forces.</p> <p>CURRENT SITUATION: In an effort to save the U.S. government approximately \$500 million annually, the DoD is consolidating some of the U.S. infrastructure in Europe. These actions are taken as part of the European Infrastructure Consolidation (EIC) process. The process will enhance a U.S. rotational presence in Europe for training, exercise, and other NATO activities (U.S. DoD News Release NR-004-15, January 08, 2015). The EIC actions include divesting RAF Mildenhall and returning the installation to the United Kingdom. As the only Air Force special operations unit in the European Command the 352 SOW must relocate to an installation that will allow the unit to continue its mission under the Special Operations Command in Europe. Early site investigation efforts by HQ AFSOC determined that Spangdahlem AB was best suited installation to support the relocation of the 352 SOW within the European theater. While the installation has the capacity to support the 352 SOW, many of the required facilities are inadequately sized or configured, in particular the aircraft parking aprons and aircraft maintenance hangars. Use of existing facilities for the other operations, equipment maintenance, and administrative support would leave the 352 SOW scattered throughout the installation, significantly reducing operational readiness of the units that comprise the SOW.</p> <p>IMPACT IF NOT PROVIDED: Without this project the 352 SOW will not be able to adequately relocate to Spangdahlem AB in support of the EIC actions. If the 352 SOW is required to relocation without construction of new facilities, the 1,000+ Air Force personnel charged with providing specialized operations using advanced aircraft, tactics, and air refueling techniques to transport and resupply military forces will find their day-to-day aircraft maintenance and aircraft launch operations negatively impacted as they are supported in inefficient, scattered, and inadequately sized/configured facilities. The 352 SOW personnel will work with a shortage in required aircraft parking apron space, hangar bays, back shops, secured mission planning space, simulated training rooms, and operating space. The lack of adequate hangar facilities will adversely impact the maintenance turn-around times which will reduce aircraft mission capability rates. Without covered maintenance space, inclement weather and darkness will directly impact mission readiness. Lack</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY			4. PROJECT TITLE EIC - SITE DEVELOPMENT AND INFRASTRUCTURE	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 812-225	7. RPSUID/PROJECT NUMBER 3298/VYHK173001	8. PROJECT COST (\$000) 43,465	
<p>of existing Secure Areas needed to support the multiple intelligence operations will result in severely reduced operational capability for the 25th Intelligence Squadron, the Special Advisor, the JAOC, and JSOAC.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements," UFC 3-260-1, Airfield & Heliport Planning & Design, and Air Force Special Operations Command Facility Requirements Documents. An economic analysis waiver will be required based on AFI 65-501 Section 1.22 and is pending.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .899</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an as available basis; however, the scope of the requirement is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION SPANGDAHLEM AIR BASE SPANGDAHLEM SITE # 1 GERMANY		4. PROJECT TITLE EIC - SITE DEVELOPMENT AND INFRASTRUCTURE	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 812-225	7. PROJECT NUMBER 3298/VYHK173001	8. PROJECT COST (\$000) 43,465
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			15-SEP-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			15-MAR-16
(e) Date Design Complete			31-DEC-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			Design Bid Build
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			2,608
(b) All Other Design Costs			1,304
(c) Total			3,912
(d) Contract			3,260
(e) In-house			652
(4) Construction Contract Award			17 JUN
(5) Construction Start			17 JUL
(6) Construction Completion			19 JUN
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations: N/A			

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM				2. DATE (YYMMDD) 20150911					
3. INSTALLATION AND LOCATION JOINT REGION MARIANAS - ANDERSEN GUAM				4. COMMAND PACIFIC AIR FORCES		5. AREA CONSTRUCTION COST INDEX 2.31					
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED		TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED		CIVILIAN
a. AS OF	30-Sep-15	158	1595	376							2,129
b. END FY	2021	158	1643	383							2,184
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		20,270									
b. INVENTORY TOTAL AS OF		30-Sep-15								6,145,097	
c. AUTHORIZATION NOT YET IN INVENTORY										434,030	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)										80,658	
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)										228,876	
f. REMAINING DEFICIENCY										175,449	
g. GRAND TOTAL										7,064,110	
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
CATEGORY						COST		DESIGN STATUS			
<u>CODE</u>		<u>PROJECT TITLE</u>				<u>SCOPE</u>		<u>(\$000)</u>		<u>START COMPLETE</u>	
131-111	APR - SATCOM C4I Facility					300 SM	14,200	Design Build			
211-111	Block 40 Maintenance Hangar					3,001 SM	31,158	06/15	09/16		
422-264	APR - Munitions Storage Igloos, Ph 2					784 SM	35,300	Design Build			
						TOTAL	80,658				
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)											
422-264	APR - Munitions Storage Igloos, Ph 3					3,920 SM	39,001				
113-321	APR - N Ramp Dispersed Parking Apron/Infra					104,004 SM	147,800				
422-264	APR - Munitions Storage Igloos, Ph 4					3,600 SM	42,075				
						TOTAL	228,876				
R&M UNFUNDED REQUIREMENT (\$M)						TOTAL	2.2				
10. MISSION OR MAJOR FUNCTIONS											
JRM-Andersen is home to the 36th Wing (36 WG) with the primary mission to employ, deploy, integrate, and enable air and space forces from the most forward US sovereign air force base in the Pacific. Provides continuous bomber presence 365 days per year to support US Pacific Command. Provides a Contingency Response Group with a "911 force" capability to quickly deploy to any hot spot in the region to quickly open and operate an air base for both combat and humanitarian assistance missions.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution										0	
b. Water Pollution										0	
c. Occupational Safety and Health										0	
d. Other Environmental										0	
						TOTAL	0				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM			4. PROJECT TITLE APR - MUNITIONS STORAGE IGLOOS, PHASE 2	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 422-264	7. RPSUID/PROJECT NUMBER 1366/AJJOY073105P2	8. PROJECT COST (\$000) 35,300	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				19,547
CONSTRUCT MODULAR STORAGE MAGAZINES	SM	3,281	5,848	(19,186)
SUSTAINABILITY AND ENERGY MEASURES	LS			(361)
SUPPORTING FACILITIES				11,000
ENVIRONMENTAL REMEDIATION	LS			(750)
ARCHAEOLOGICAL MONITORING	LS			(250)
PAVEMENT	LS			(2,500)
SITE IMPROVEMENTS	LS			(2,500)
UTILITIES	LS			(4,500)
UXO/EXPLOSIVE SAFETY SUBMISSION REQUIREMENTS	LS			(500)
SUBTOTAL				30,547
CONTINGENCY (5.0%)				1,527
TOTAL CONTRACT COST				32,075
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				1,989
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,222
TOTAL REQUEST				35,285
TOTAL REQUEST (ROUNDED)				35,300
10. Description of Proposed Construction: Construct munitions Hayman storage igloos utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02; High Performance and Sustainable Building Requirements; and the U.S. Air Force Munitions Facilities Standards Guide, Volume 1, 31 May 2004.. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.				
11. Requirement: 37000 SM Adequate: 2319 SM Substandard: 25406 SM <u>PROJECT:</u> Asia-Pacific Resiliency (APR) Munitions storage igloos, Phase 2. (Current Mission) <u>REQUIREMENT:</u> This project is the second phase of a four phase 60 igloo requirement to provide adequately sized, configured, sited and protected munitions storage igloos to ensure sufficient supply of the new highly sophisticated munitions that will be critical in the initial stages of any armed combat missions. This phase will construct 17 munitions Hayman storage igloos. All MSM require power, lights, intrusion detection system, humidity control, reinforced concrete foundation, rated				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM			4. PROJECT TITLE APR - MUNITIONS STORAGE IGLOOS, PHASE 2	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 422-264	7. RPSUID/PROJECT NUMBER 1366/AJFY073105P2	8. PROJECT COST (\$000) 35,300	
<p>7-bar construction, floor slabs, columns, beams, communications, lighting and electrical support, fire protection system, and lightning protection system. Supporting facilities include site development, utilities and connections, road construction, and loading aprons. Project will utilize economical design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria UFC 1-200-02. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p><u>CURRENT SITUATION:</u> The 36th Munitions Squadron stores, inspects, maintains and accounts for the largest munitions stockpile in Pacific Air Forces currently valued at over \$1.3B and assembles and delivers these munitions to deployed combat aircraft during wartime or contingency operations. 36 MUNS is entrusted with the health of Andersen's stockpile which is valued in excess of \$1.28 billion. They ensure proper storage practices are utilized, inspect and maintain these munitions and ensure accountability of over 9 million individual items. In April 2002, the USAF Safety Center classified 132 existing 1950s munitions igloos as "undefined" due to faulty door design, thus downgrading these facilities to non-standard type operations. This, compounded by deterioration of the facilities and their loss of earth cover caused by super typhoons, caused the Net Explosive Weight (NEW) to be reduced by 14,000,000 lbs total. A joint Pacific Air Forces/wing munitions squadron assessment of the munitions storage capability was conducted. The assessment identified a 60 each munitions storage igloo shortfall. These igloos are needed to meet the munitions mission required by the War Consumables Distribution Objectives document, Defense Planning Guidance, and PACOM O-plans. Over the past 10 years, the squadron has continually provided munitions, equipment and operating locations in support of Pacific Command's Continuous Bomber Presence averaging 1K+ expenditures per B-52 rotation and to support annual major joint and multilateral exercises producing over 6.5K expenditures each (i.e. Ex COPE NORTH, Ex VALIANT SHIELD). Furthermore, 36 MUNS responds to emerging threats such as generating air-to-air weapons for Operation NOBLE EAGLE missions defending the skies over Guam and the Commonwealth of Northern Marianas Islands. The squadron also assists Task Force Talon with storage space for small arms and air defense resupply missile rounds along with drive-in storage for typhoon defensive measures.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Generally, 36 MUNS operates at ~90% of its physical storage capacity and ~90% of its Net Explosive Weight capacity. Capacity is strained further throughout a given year due to the arrival of resupply munitions and munitions placed at Andersen AFB temporarily until directed by PACAF/A4MWC to push elsewhere. Additionally, the squadron expects to bed down approximately 400 JASSM-ER missiles beginning FY17 requiring storage facilities with wide entryways to prevent damage to shipping containers during handling. Constructing additional Hayman igloos will adequately prepare 36 MUNS for JASSM-ER bed down, allow for 36 WG and tenant unit mission expansion and preservation while continuing to defend war fighting resources against aggressive environmental climatic conditions. Lack of adequate munitions storage will continue to adversely impact essential forward-positioned munitions storage capability needed that supports AEF FOL operations.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM			4. PROJECT TITLE APR - MUNITIONS STORAGE IGLOOS, PHASE 2	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 422-264	7. RPSUID/PROJECT NUMBER 1366/AJJY073105P2	8. PROJECT COST (\$000) 35,300	
<p>The inability to properly store new weapons systems at Andersen AFB will deprive PACAF immediate access to selected munitions to meet changing AEF FOL taskings and bomber sortie generation. These munitions support on-going operations such as Operation Enduring Freedom (OEF) and Operation Nobel Eagle (ONE)</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in AFH 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs, new construction. Therefore a request for waiver has been submitted and approved. The supporting costs for this project are higher than usual do to the distance necessary to run the utilities and the large associated pavements. Any hazardous materials must be disposed of in accordance to all Federal and Local Regulations. Base Civil Engineer: 671-366-7101. Modular Storage Magazines: 3281 SM = 35,304 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> These facilities can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM		4. PROJECT TITLE APR - MUNITIONS STORAGE IGLOOS, PHASE 2	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 422-264	7. PROJECT NUMBER 1366/AJYY073105P2	8. PROJECT COST (\$000) 35,300
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Project to be accomplished by design-build procedures</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - NO</p> <p>(b) Where Design Was Most Recently Used -</p> <p>(3) All Other Design Costs 1,412</p> <p>(4) Construction Contract Award 17 FEB</p> <p>(5) Construction Start 17 MAR</p> <p>(6) Construction Completion 19 JUN</p> <p>(7) Energy Study/Life-Cycle analysis was/will be performed YES</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM		4. PROJECT TITLE APR - SATCOM C4I FACILITY			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 131-111	7. RPSUID/PROJECT NUMBER 1366/AJJY173010	8. PROJECT COST (\$000) 14,200		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
COMM FCLTY					7,126
COMMUNICATIONS FACILITY		SM	300	23,297	(6,989)
SUSTAINABILITY AND ENERGY MEASURES		LS			(137)
SUPPORTING FACILITIES					5,191
UTILITIES		LS			(441)
SITE IMPROVEMENTS		LS			(497)
PAVEMENTS		LS			(218)
COMMUNICATIONS		LS			(3,507)
ENVIRONMENTAL REMEDIATION		LS			(453)
ARCHEOLOGICAL MONITORING		LS			(75)
SUBTOTAL					12,317
CONTINGENCY (5.0%)					616
TOTAL CONTRACT COST					12,933
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)					802
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					493
TOTAL REQUEST					14,227
TOTAL REQUEST (ROUNDED)					14,200)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(1,405
10. Description of Proposed Construction: Construct Satellite Communications (SATCOM) Command, Control, Communications, Computers, & Intelligence (C4I) Facility utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
11. Requirement: 650 SM Adequate: 350 SM Substandard: 0 SM					
<u>PROJECT:</u> SATCOM C4I Facility. (New Mission)					
<u>REQUIREMENT:</u> An adequately sized and configured communications facility that ensures diverse communications system is available to support theater requirements. The facility contains the equipment necessary to ensuring fast, reliable, and secure exchange of information, including the distribution frames and associated panels, jacks, and switches that allows telecommunications systems control personnel to exercise operational control of communications paths and facilities to make quality analyses of communications and communications channels, monitor					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM			4. PROJECT TITLE APR - SATCOM C4I FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 131-111	7. RPSUID/PROJECT NUMBER 1366/AJJY173010	8. PROJECT COST (\$000) 14,200	
<p>operations and maintenance functions, recognize and correct deteriorating conditions, restore disrupted communications, provide requested on-call circuits, and take or direct such actions as may be required and practical to provide effective telecommunications services.</p> <p><u>CURRENT SITUATION:</u> The existing Tech Control and Mystic Star facilities lack the redundancy and diversity necessary to ensure continuous communications operations. This project creates a diverse path for essential SATCOM and theater communications.</p> <p><u>IMPACT IF NOT PROVIDED:</u> JRM Andersen will continue to function with the risk of communications interruptions due to technological, natural or man-made failures. Such interruptions could jeopardize Andersen's ability to provide continuous communications severely impact SATCOM and theater operations.</p> <p><u>ADDITIONAL:</u> This project meets the applicable criteria/scope identified in AFMAN 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs; therefore, a complete economic analysis was not performed and a request for waiver has been submitted. The initial cost is within DoD Pricing Guide parameters, except as noted. The facility requires additional shielding to meet TEMPEST requirements, and the supporting costs for this project are higher due to the extensive communications infrastructure required to connect to the base's network. Base Civil Engineer: (907) 377-5213. SATCOM C4I Facility: 300 SM = 3,230 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM		4. PROJECT TITLE APR - SATCOM C4I FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 131-111	7. PROJECT NUMBER 1366/AJJY173010	8. PROJECT COST (\$000) 14,200
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			568
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			18 DEC
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
COMMUNICATIONS EQUIPMENT	3080	2018	1,250
FURNISHINGS AND EQUIPMENT	3400	2018	155

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM			4. PROJECT TITLE BLOCK 40 MAINTENANCE HANGAR		
5. PROGRAM ELEMENT 35220	6. CATEGORY CODE 211-111	7. RPSUID/PROJECT NUMBER 1366/AJY173001	8. PROJECT COST (\$000) 31,158		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					21,618
HIGH BAY MAINTENANCE HANGAR (211-111)		SM	2,264	7,316	(16,563)
MAINTENANCE SHOPS (211-152)		SM	743	6,267	(4,656)
SUSTAINABILITY AND ENERGY MEASURES		LS			(398)
SUPPORTING FACILITIES					6,324
UTILITIES		LS			(824)
PAVEMENTS		LS			(2,376)
SITE IMPROVEMENTS		LS			(704)
COMMUNICATIONS		LS			(260)
HAZARDOUS MATERIALS ABATEMENT/ESS REQUIREMENT		LS			(2,160)
SUBTOTAL					27,942
CONTINGENCY (5.0%)					1,397
TOTAL CONTRACT COST					29,339
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)					1,819
TOTAL REQUEST					31,158
TOTAL REQUEST (ROUNDED)					31,158
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(150.0)
10. Description of Proposed Construction: Construct 3,007 SM maintenance hangar with shops utilizing conventional design and construction methods to accommodate the mission of the facility. The facility must be able to withstand the wind and seismic loads experienced in the local area. Local materials and construction techniques shall be used where cost effective, consistent with permanent construction standards and in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements, and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 100 Tons					
11. Requirement: 9741 SM Adequate: 6734 SM Substandard: 0 SM					
PROJECT: Global Hawk Block 40 Maintenance Hangar. (New Mission)					
REQUIREMENT: An aircraft maintenance complex is required to support the Block 40 aircraft beddown at Andersen AFB, Guam. Global Hawk aircraft require all-weather interior maintenance space to accomplish scheduled inspections, airframe repairs, pre- and post-flight operations, as well as technical order compliance and modifications. The facility includes covered maintenance space for two aircraft, maintenance support space, supply/tool room/support section, classified storage, support equipment maintenance, aircraft parts receiving, shipping and storage, maintenance operations center, secure work areas, fire detection/ suppression, intrusion detection system, environmental controls, communications, utilities,					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM			4. PROJECT TITLE BLOCK 40 MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 35220	6. CATEGORY CODE 211-111	7. RPSUID/PROJECT NUMBER 1366/AJFY173001	8. PROJECT COST (\$000) 31,158	
<p>pavements, GOV/POV parking, demolition, hazardous materials abatement, and all necessary supporting utilities/facilities for complete and usable facility.</p> <p>CURRENT SITUATION: Andersen AFB lacks adequate facilities to conduct squadron level maintenance for the new Block 40 Global Hawk mission. The existing Global Hawk hangar does not contain adequate space for the additional aircraft/mission. Other existing hangars are inadequately sized and improperly configured to accommodate the specialized requirements of the new Global Hawk aircraft.</p> <p>IMPACT IF NOT PROVIDED: Without this project, the AF will be unable to properly beddown PACOM's Global Hawk Block 40 aircraft at Andersen AFB and will be unable to maintain sensitive airborne sensor equipment in a controlled environment. To perform essential sortie-generation activities, it will be required to regularly tow aircraft out of the existing hangar and be parked outside. If pre-flight of aircraft is conducted outside, there is significant risk of mission delay or failure because all avionics are cooled by fuel that heats up rapidly in aircraft parked outside. Parking outside also risks premature corrosion due to a combination of 80% humidity, high temperatures, salt in the air, and approximately 90 inches of rain each year.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This project meets the criteria/scope specified in previous PACAF Global Hawk Beddown SATAF Reports. A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs. Therefore, a complete economic analysis was not performed; a request for waiver has been submitted. Base Civil Engineer: Comm 671-366-7101. High Bay Maintenance Hanger: 2,264 SM = 24,370 SF; Maintenance Shops: 743 SM = 7,950 SF.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION JOINT REGION MARIANAS - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM		4. PROJECT TITLE BLOCK 40 MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 35220	6. CATEGORY CODE 211-111	7. PROJECT NUMBER 1366/AJYY173001	8. PROJECT COST (\$000) 31,158
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			15-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			31-MAR-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			1,860
(b) All Other Design Costs			930
(c) Total			2,790
(d) Contract			2,325
(e) In-house			465
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			19 JUN
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE AND FIXTURES	3400	2018	100
ADP EQUIPMENT	3400	2018	50

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20150911				
3. INSTALLATION AND LOCATION KADENA AIR BASE JAPAN				4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 1.77				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED		TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED		CIVILIAN
a. AS OF	30-Sep-15	711	5637	905							7,253
b. END FY	2021	717	6079	915							7,711
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		10,983									
b. INVENTORY TOTAL AS OF		30-Sep-15									8,367,184
c. AUTHORIZATION NOT YET IN INVENTORY											0
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											19,815
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											47,100
f. REMAINING DEFICIENCY											96,050
g. GRAND TOTAL											8,530,149
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY					COST		DESIGN STATUS		
CODE		PROJECT TITLE			SCOPE		(\$000)		START	COMPLETE	
422-264	APR - Replace Munitions Structures				3,637 SM		19,815		06/15	09/15	
							TOTAL		19,815		
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
125-977	APR - Fuel Manifold				776 SM		9,800				
411-135	APR- POL Storage				776 SM		10,300				
740-674	Add Alter Fitness Center				9,994 SM		27,000				
							FUTURE PROJECTS TOTAL		47,100		
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL		139.1		
10. MISSION OR MAJOR FUNCTIONS											
Operating from the largest US installation in the Asia-Pacific region, the 18th Wing defends US and Japanese mutual interests by providing a responsive staging and operational air base with integrated, deployable, forward-based airpower. Strategy used to employ this mission centers around 93 aircraft comprised of 54 F-15, 15 KC-135, 2 E-3, 10 C-130, and 2 RC-135.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL		0		

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE KADENA AMMO STORAGE ANNEX SITE # 1 JAPAN			4. PROJECT TITLE APR - REPLACE MUNITIONS STRUCTURES		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 422-264	7. RPSUID/PROJECT NUMBER 2406/LXFB123876	8. PROJECT COST (\$000) 19,815		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					9,506
ABOVEGROUND STORAGE (422-258)		SM	841	2,023	(1,701)
STORAGE IGLOO (422-264)		SM	2,676	2,847	(7,619)
SUSTAINABILITY AND ENERGY MEASURES		LS			(186)
SUPPORTING FACILITIES					8,214
UTILITIES		LS			(3,602)
PAVEMENTS		LS			(1,511)
DEMOLITION		SM	3,915	310	(1,214)
SITE PREPARATION		LS			(1,401)
FORCE PROTECTION		LS			(486)
SUBTOTAL					17,720
CONTINGENCY (5.0%)					886
TOTAL CONTRACT COST					18,606
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					1,209
TOTAL REQUEST					19,815
TOTAL REQUEST (ROUNDED)					19,815
10. Description of Proposed Construction: This project will demolish 14 earth covered munitions storage igloos (ECM) and 1 above ground magazine (AGM) to be replaced by 15 ECMs and 1 AGM to accommodate the mission of the facility. In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. This project includes demolition of munitions storage structures to include testing and abatement of asbestos and/or lead base paint materials. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02; High Performance and Sustainable Building Requirements; and the U.S. Air Force Munitions Facilities Standards Guide, Volume 1, 31 May 2004. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
11. Requirement: 3517 SM Adequate: 0 SM Substandard: 3885 SM					
PROJECT: Replace munitions structures. (Current Mission)					
REQUIREMENT: This project is part of a multi-phased effort to replace the munitions storage structures facilities at Kadena AB. Work to be included in this effort: For existing Igloos/Earth Covered Magazines, demolish existing facility and replace with 7-Bar Hayman Earth Covered Magazines featuring large sliding doors to support current and future munitions assets and their handling equipment. For Above Ground Magazines: Demolish existing facility and replace with Above Ground Magazine. Features to include drive-in-access, from ground level, to accommodate a					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE KADENA AMMO STORAGE ANNEX SITE # 1 JAPAN			4. PROJECT TITLE APR - REPLACE MUNITIONS STRUCTURES	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 422-264	7. RPSUID/PROJECT NUMBER 2406/LXFB123876	8. PROJECT COST (\$000) 19,815	
<p>22k fork lift and doors no less than 34ft wide by 20ft high. All facilities require 2-level Intrusion Detection System, steel bars at opening of 96 sq. in. or greater, and high security hasps IAW AFI 31-101. Projects should include testing and abatement of asbestos containing material and lead based paint. The Hayman Earth Covered Magazine meets this requirement.</p> <p>CURRENT SITUATION: Kadena Air Base's 18th Munitions Squadron's (18 MUNS) storage area has approximately 406 facilities, 105 miles of roadway, 9 miles of KAB perimeter fence line, and 5,940 acres. 18 MUNS controls a stock pile of over 2,909,774.6 lbs, Net Explosive Weight, worth \$885,963,044. The 18 MUNS is responsible for the largest Munitions Storage Area in the Air Force. The 18th Munitions Squadron's mission is to provide conventional munitions maintenance, out-load ammo by air and/or sea, and support units for training and contingencies to sustain PACOM, PACAF and 18th Wing. These structures were built with a service life of 50 years and were constructed between 1952 and 1965. During the construction of these facilities, all concrete was procured from local manufacturers on Okinawa. This concrete is made from limestone which is mined off the coast of Okinawa and contains salt, and with the heavy rain, and extremely humid climate, it causes expansion/stress and rapid oxidization of the rebar throughout the structures. This condition is the cause of the increased rate of corrosion. All 18 MUNS structures are painted on a reoccurring basis to slow corrosion. All preventative maintenance actions/materials have been utilized to their maximum extent. Due to the corrosion of the blast doors, uncontrollable concrete ceiling spalling, the age of the facilities, and the lack of features necessary to safely secure and store ammunition a complete infrastructure upgrade is required.</p> <p>IMPACT IF NOT PROVIDED: Without these replacement earth covered igloos and their associated access roads and load/unload pads Kadena Air Base's ability to accomplish its primary mission will be significantly reduced. Using the smaller blast doors imposes a safety risk of storing larger munitions in the older igloos. Continued use will place personnel at a significant safety risk. These facilities are currently used as either inert storage, or have been rendered unusable, as the condition of the structure is unsafe due to cement ceiling spalls unexpectedly falling, causing a constant potential of damage to munitions and danger to personnel. Also, there are several deviations currently in place with 18th Security Forces due to numerous violations of facility security requirements. IAW AFI 31-101, requirements not being met include: exterior building and door lighting for Category I & II munitions, installation of Intrusion Detection System (IDS) for Category I & II storage structures, and structure windows/other openings must be sealed with material comparable to the adjacent walls. This project will present new facilities in compliance with aforementioned standards that will allow movement of munitions from deficient buildings. The lack of available facilities to accommodate efficient storage, handling, and transport of a munitions stockpile, that is not only growing in diversity but in physical size as well, greatly degrades our ability to support 18 WG OPLANS and contingency operations. Upgrade of infrastructure will afford 18 MUNS with new capability and flexibility to disperse TARRP UTCs and future mobility related munitions assets. The proposed locations of these facilities will allow more efficient utilization and</p>				

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3. INSTALLATION, SITE AND LOCATION KADENA AIR BASE KADENA AMMO STORAGE ANNEX SITE # 1 JAPAN			4. PROJECT TITLE APR - REPLACE MUNITIONS STRUCTURES	
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<p>consolidation of interior and geographic storage space.</p> <p>ADDITIONAL: For all explosive facility designs, see AFMAN91-201 Ch 6. For 7-Bar Hayman ECM specifications and information, see The Department of Defense Explosives Safety Board (DDESB) Technical Paper (TP) 15, and STD 421-80-06. This project meets the criteria/scope specified in AFH 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs. Therefore, a complete economic analysis was not performed and a certificate of exception is being prepared. The supporting costs for this project are higher than usual due to the distance (in excess of 1.5 miles) necessary to run the utilities and the large associated pavements. This project is eligible for host nation funding; however the US Forces Command of Japan states the project has extremely little chance of being funded in the foreseeable future. Base Civil Engineer: 011-81-6117-34-1807. Replace Above Ground Storage: 841 SM = 9049 SF. Storage Igloos: 2,676 SM = 28,793 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: YEN 122.4519</p> <p>JOINT USE CERTIFICATION: This facility may be used by other components on an "as available" basis; however, the scope is based on Air Force requirements.</p>				

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3. INSTALLATION AND LOCATION KADENA AIR BASE KADENA AMMO STORAGE ANNEX SITE # 1 JAPAN		4. PROJECT TITLE APR - REPLACE MUNITIONS STRUCTURES																											
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<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>15-JUN-15</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>YES</td> </tr> <tr> <td>* (c) Percent Complete as of 01 JAN 2016</td> <td>15%</td> </tr> <tr> <td>* (d) Date 35% Designed</td> <td>31-MAR-16</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>30-SEP-16</td> </tr> <tr> <td>(f) Energy Study/Life-Cycle analysis was/will be performed</td> <td>YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>1,500</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>750</td> </tr> <tr> <td>(c) Total</td> <td>2,250</td> </tr> <tr> <td>(d) Contract</td> <td>1,875</td> </tr> <tr> <td>(e) In-house</td> <td>375</td> </tr> </table> <p>(4) Construction Contract Award 17 FEB</p> <p>(5) Construction Start 17 MAR</p> <p>(6) Construction Completion 19 JUN</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>				(a) Date Design Started	15-JUN-15	(b) Parametric Cost Estimates used to develop costs	YES	* (c) Percent Complete as of 01 JAN 2016	15%	* (d) Date 35% Designed	31-MAR-16	(e) Date Design Complete	30-SEP-16	(f) Energy Study/Life-Cycle analysis was/will be performed	YES	(a) Standard or Definitive Design -	NO	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	1,500	(b) All Other Design Costs	750	(c) Total	2,250	(d) Contract	1,875	(e) In-house	375
(a) Date Design Started	15-JUN-15																												
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1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911					
3. INSTALLATION AND LOCATION YOKOTA AIR BASE JAPAN					4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 1.79				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-15	444	2545	1499							4,488	
b. END FY	2021	444	2545	1499							4,488	
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE		1,750										
b. INVENTORY TOTAL AS OF		30-Sep-15										1,699,970
c. AUTHORIZATION NOT YET IN INVENTORY												0
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)												32,020
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)												0
f. REMAINING DEFICIENCY												74,457
g. GRAND TOTAL												1,806,447
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)												
		CATEGORY						COST		DESIGN STATUS		
CODE	PROJECT TITLE				SCOPE			(\$000)		START	COMPLETE	
171-475	Construct CATM Facility				1,913 SM			8,243		Design Build		
211-159	C-130J Corrosion Control Hangar				12,347 SM			23,777		06/15	09/15	
							TOTAL		32,020			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)												
							TOTAL		0			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL		15.5			
10. MISSION OR MAJOR FUNCTIONS												
Yokota Air Base is home to the 374th Airlift Wing (host unit) and is currently used for airlift missions throughout East Asia. The 374th includes four groups: operations, mission support, maintenance and medical. Each group manages a various number of squadrons in order to carry out the wing's mission. C-130J Aircraft are projected to arrive in 2017 to replace existing C-130H aircraft. Air Mobility Command (AMC) plans to establish a regional C-130J flight simulator training program for pilots and crew members at Yokota.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)												
a. Air Pollution												0
b. Water Pollution												0
c. Occupational Safety and Health												0
d. Other Environmental												0
							TOTAL		0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION YOKOTA AIR BASE YOKOTA AB SITE # 1 JAPAN			4. PROJECT TITLE C-130J CORROSION CONTROL HANGAR		
5. PROGRAM ELEMENT 41132	6. CATEGORY CODE 211-159	7. RPSUID/PROJECT NUMBER 3541/ZNRE153001A	8. PROJECT COST (\$000) 23,777		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					17,521
CORROSION CONTROL HANGAR (211-159)		SM	4,226	3,517	(14,861)
BLDG 906 REPAIRS AND MODIFICATIONS (211-111)		SM	3,951	523	(2,068)
BLDG 907 REPAIRS AND MODIFICATIONS (211-157)		SM	4,170	116	(483)
SUSTAINABILITY AND ENERGY MEASURES		LS			(109)
SUPPORTING FACILITIES					3,742
SITE IMPROVEMENTS		LS			(41)
PAVEMENTS		LS			(80)
UTILITIES		LS			(587)
COMMUNICATIONS		LS			(414)
ENVIRONMENTAL REMEDIATION		LS			(250)
ARCHEOLOGICAL MONITORING		LS			(125)
DEMOLITION		SM	3,345	671	(2,245)
SUBTOTAL					21,263
CONTINGENCY (5.0%)					1,063
TOTAL CONTRACT COST					22,326
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					1,451
TOTAL REQUEST					23,777
TOTAL REQUEST (ROUNDED)					23,777
10. Description of Proposed Construction: Construct corrosion control facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facility will consist of reinforced concrete foundation, steel structure, reinforced concrete walls, sloping roof, sliding metal doors and fire protection systems. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Demolish one building containing a total of 3,345 SM. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. Air Conditioning: 800 Tons					
11. Requirement: 4226 SM Adequate: 0 SM Substandard: 2201 SM PROJECT: Construct a C-130J-30 1-Bay Corrosion Control Hangar Facility (New Mission). REQUIREMENT: An adequate facility, properly sized and configured, is required to support C-130J-30 corrosion control operations in support of the current mission. The proposed C-130J-30 Corrosion Control Hangar will be designed to meet standards outlined in UFC 4-211-02 10 May 2012 Aircraft Corrosion Control and Paint					

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5. PROGRAM ELEMENT 41132	6. CATEGORY CODE 211-159	7. RPSUID/PROJECT NUMBER 3541/ZNRE153001A	8. PROJECT COST (\$000) 23,777	
<p>Facilities. The C-130J-30 requires complete painting every 2 years and spot painting on an as needed basis. The aircraft also require washing every 15 days and prior to any paint operations. The facility will include an aircraft restorations bay, preparation and drying areas, abrasive blasting rooms, paint booths for mixing and/or applying paint, curing, tool storage, lockers, administrative support functions tool storage, eye washing systems, electrical, mechanical, water, communication, fire suppression/detection, air conditioning system with humidity environmental controls, utilities, pavements, associated site improvements, archeological monitoring and all necessary supporting facilities for a complete and usable facility.</p> <p>CURRENT SITUATION: The 374 Air Wing is transitioning from the C-130H aircraft to the C-130J-30 aircraft. The C-130J-30 is 15 feet longer than the C-130H model. There is not currently a hangar at Yokota AB with corrosion control capabilities large enough to accommodate the extended length of C-130J-30 aircraft and the appropriate clearances required from hangar walls and doors as listed in Air Force Manual 32-1084. To support the 14 C-130J-30 assigned aircraft, the 374 Air Wing requires a facility can support the corrosion control requirements of the C-130J-30, is large enough to fit C-130J-30 aircraft, and meets the current standards for aircraft corrosion control.</p> <p>IMPACT IF NOT PROVIDED: Without this facility, Yokota AB will be unable to provide adequate corrosion control to the 14 C-130J-30 assigned aircraft. Lack of this facility would significantly reduce readiness, and could result in degradation of operational capability, and may increase potential for a serious mishap.</p> <p>ADDITIONAL: This project meets the criteria/ scope specified in Air Force Manual 32-1084 and the Yokota Air Base Architectural Compatibility and Base Design Standards (1996). A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs, new construction. Therefore, a certificate of exception was submitted and approved. Base Civil Engineer: (011) 81-3117-55-7215. C-130J Corrosion Control Hangar: 4,226 SM = 45,486 SF; Repair Bldg 906, 3,951 SM = 42,513 SF; Repair Bldg 907, 4,170 SM = 44,869 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: YEN 122.4519</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an as available basis; however, the scope of the project is based on Air Force requirements.</p>				

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(a) Date Design Started	15-JUN-15																												
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3. INSTALLATION, SITE AND LOCATION YOKOTA AIR BASE YOKOTA AB SITE # 1 JAPAN		4. PROJECT TITLE COMBAT ARMS TRAINING MAINTENANCE (CATM) FACILITY			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 171-475	7. RPSUID/PROJECT NUMBER 3541/ZNRE063004	8. PROJECT COST (\$000) 8,243		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITY					4,712
CATM FACILITY (171-475)		SM	1,913	2,415	(4,620)
SUSTAINABILITY AND ENERGY MEASURES		LS			(92)
SUPPORTING FACILITIES					2,659
PAVEMENTS		LS			(345)
UTILITIES		LS			(192)
FIRE PROTECTION SYSTEM		LS			(329)
COMMUNICATION SYSTEM		LS			(119)
SPECIAL CONSTRUCTION (BULLET TRAPS)		LS			(1,010)
DEMOLITION COSTS (INCL ASBESTOS ABATEMENT)		SM	1,068	474	(506)
SITE IMPROVEMENT		LS			(158)
SUBTOTAL					7,371
CONTINGENCY (5.0%)					369
TOTAL CONTRACT COST					7,740
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					503
TOTAL REQUEST					8,243
TOTAL REQUEST (ROUNDED)					8,243
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(45.0)
10. Description of Proposed Construction: Construct a compliant Combat Arms Training Maintenance (CATM) facility utilizing economical design and construction methods to accommodate the mission of the facility. Project includes HVAC/ filtration system, targeting and safety features, administrative, educational, maintenance, and storage areas, weapons vault, Combat Arms Training Simulator (CATS), and small arms range. The existing sub-standard CATM facility (1,068 SM) will be demolished. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 100 Tons					
11. Requirement: 1913 SM Adequate: 0 SM Substandard: 1068 SM					
PROJECT: Combat Arms Training Maintenance (CATM) facility. (Current Mission)					
REQUIREMENT: This project is required to provide a compliant CATM facility to support current mission operations for 3.8K Joint US Personnel in the Tokyo Region, Japan. Small arms range requires a minimum of fourteen positions on the firing line, adequate space allocation for support functions to include life, health, safety requirements, and a ventilation system capable of controlling exposure to lead and heavy metals/and or dust in accordance with federal regulations.					

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3. INSTALLATION, SITE AND LOCATION YOKOTA AIR BASE YOKOTA AB SITE # 1 JAPAN			4. PROJECT TITLE COMBAT ARMS TRAINING MAINTENANCE (CATM) FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 171-475	7. RPSUID/PROJECT NUMBER 3541/ZNRE063004	8. PROJECT COST (\$000) 8,243	
<p>CURRENT SITUATION: Constructed in 1975, YAB's CATM facility is not compliant with current standards. The existing facility features only 10 firing positions and is both undersized and inadequate to train the 2.6K base and 1.2K joint personnel YAB supports. Executing 18-22 training courses on average per month, the Combat Arms Division faces ongoing training delays and deficiencies. For example, a shut-down of 45 days occurred during Feb - Oct 2013, impacting training mission. Training has been impeded by increasingly frequent facility-closures due to failing systems and rapidly deteriorating components that threaten the facility's mission by causing unsafe firing conditions. Short term repairs will continue to be required in order to mitigate mission stoppage. The existing range is not air conditioned resulting in extreme seasonal temperatures, lacks acoustic dampening measures to reduce noise levels, and is outfitted with an antiquated ventilation system requiring an unprecedented maintenance/cleaning contract to maintain safe levels of lead exposure. August 2012, Bioenvironmental Engineering (BE) discovered the ventilation system was excessively contaminated with lead dust. Subsequently, airborne lead exposure levels were monitored in accordance with OSHA general industry standard and instructors were identified as having Occupational and Environmental Exposure Limits (OEEL) above OSHA Permissible Exposure Limits (PEL). As a result, worker exposure monitoring was mandated quarterly, 8-times more frequent than the bi-annual standard. The facility lacks hygiene functions such as hand-washing stations, shower and laundry areas required to minimize secondary lead exposure and contamination. A weapons cleaning area is not provided, forcing personnel to clean weapons in the classroom and further increasing lead exposure and contamination. No other facility in the greater Tokyo Region, Japan, is available to support YAB's Combat Arms Training Maintenance mission operations.</p> <p>IMPACT IF NOT PROVIDED: Existing CATM facility will continue to threaten current mission operations, requiring significant risk management and on-going repairs to mitigate serious life, health, safety hazards and resulting mission stoppages. Combat Arms faces significant challenges in managing an inadequate and undersized facility while maintaining training and operational requirements in support of deployments, base and regional defense, and security. If the project is not provided and the facility closes, the missions of PACAF, 5AF, and the 374th AW will be significantly degraded as well as the missions YAB supports to include AFRICOM, CENTCOM, NORTHCOM, EUCOM, and SOUTHCOM. A new compliant facility will guarantee a safe and fully-capable combat arms training facility, thus safeguarding critical mission operations.</p> <p>ADDITIONAL: This project is not eligible for Host Nation funding. This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" and Engineering Technical Letter 11-18, "Small Arms Range Design and Construction". An economic analysis evaluating options for accomplishing the subject project determined that there is only one reasonable method to meet operational requirements: new construction. Base Civil Engineer: (011) 81-3117-55-7215. CATM Facility: 1,913 SM = 20,595SF; Demolition: 1,068 SM = 11,496 SF</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: YEN 122.4519</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION YOKOTA AIR BASE YOKOTA AB SITE # 1 JAPAN			4. PROJECT TITLE COMBAT ARMS TRAINING MAINTENANCE (CATM) FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 171-475	7. RPSUID/PROJECT NUMBER 3541/ZNRE063004	8. PROJECT COST (\$000) 8,243	
<p>available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION YOKOTA AIR BASE YOKOTA AB SITE # 1 JAPAN		4. PROJECT TITLE COMBAT ARMS TRAINING MAINTENANCE (CATM) FACILITY	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 171-475	7. PROJECT NUMBER 3541/ZNRE063004	8. PROJECT COST (\$000) 8,243
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			15-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			31-MAR-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			0
(b) All Other Design Costs			416
(c) Total			416
(d) Contract			0
(e) In-house			0
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			19 DEC
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
RANGE & MAINTENANCE EQUIPMENT	3400	2018	45

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD)				
3. INSTALLATION AND LOCATION INCIRLIK AIR BASE TURKEY					4. COMMAND UNITED STATES AIR FORCES IN EUROPE			5. AREA CONSTRUCTION COST INDEX 1			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	104	976	941	0	0	0	10	183	55	2,269
b. END FY	2021	101	953	942	0	0	0	9	180	55	2,240
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		3427									
b. INVENTORY TOTAL AS OF		30-Sep-15									1,298,965
c. AUTHORIZATION NOT YET IN INVENTORY											18,366
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											13,449
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											0
f. REMAINING DEFICIENCY											92,150
g. GRAND TOTAL											1,422,930
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY					COST			DESIGN STATUS	
<u>CODE</u>	<u>PROJECT TITLE</u>						<u>SCOPE</u>	<u>(\$000)</u>	<u>DESIGN BUILD</u>		
130-142	Airfield Fire/Crash Rescue Station						3,626 SM	13,449			
							TOTAL	13,449			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
							FUTURE PROJECTS TOTAL	0			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	1.2			
10. MISSION OR MAJOR FUNCTIONS											
Home of the 39th Air Base Wing. Incirlik mission is to provide full spectrum, world-class forward operating base support to expeditionary forces while developing the professional talents of our men and women.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL	0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION INCIRLIK AIR BASE ADANA INCIRLIK AB SITE # 1 TURKEY		4. PROJECT TITLE AIRFIELD FIRE / CRASH RESCUE STATION			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 130-142	7. RPSUID/PROJECT NUMBER 2370/LJYC133003	8. PROJECT COST (\$000) 13,449		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					10,108
AIRFIELD FIRE/CRASH RESCUE STATION (130-142)		SM	3,626	2,733	(9,910)
SUSTAINABILITY AND ENERGY MEASURES		LS			(198)
SUPPORTING FACILITIES					1,504
TEMPORARY FACILITY		LS			(200)
UTILITIES		LS			(254)
PAVEMENTS		LS			(200)
SITE IMPROVEMENTS		LS			(190)
DEMOLITION		SM	2,358	140	(330)
COMMUNICATION SUPPORT		LS			(150)
EMERGENCY GENERATOR		LS			(180)
SUBTOTAL					11,612
CONTINGENCY (5.0%)					581
TOTAL CONTRACT COST					12,192
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					792
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					464
TOTAL REQUEST					13,449
TOTAL REQUEST (ROUNDED)					13,449)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(725
10. Description of Proposed Construction: Provide drive-through truck bays, roll up doors, concrete block walls, and reinforced slab-on-grade. Construct flat built-up and sloped barrel tile roofs. Facility will be designed as a permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirement. Comply with DoD minimum Antiterrorism Standards for buildings per UFC 4-010-01. Include apparatus room, living quarters, administrative, exercise, training, recreation, supply and alarm rooms. Air Conditioning: 100 Tons					
11. Requirement: 3626 SM Adequate: 0 SM Substandard: 2358 SM <u>PROJECT:</u> Airfield Fire/Crash Rescue Station (Current Mission). <u>REQUIREMENT:</u> A properly sized facility is required for current vehicle fleet consist of 1-P23, 1-T3000, 1-STRIKER, 2-P22s, 1-P24, 2-P19s, 1-P26, 2-SUVs, 1-MRT, 1-HAZMAT VAN, 1-HAZMAT TRUCK, 2-PU Trucks, and a foam trailer for fire/crash rescue and structural fire response actions. Facility will have a vehicle exhaust system, separate personnel protective equipment cleaning area, and a central alarm center. A properly sized sleeping, kitchen/dining and physical training areas, as well as a proper fire warning/suppression system are required to support the base and airfield fire department mission. Due to the lack of space, the new facility will					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION INCIRLIK AIR BASE ADANA INCIRLIK AB SITE # 1 TURKEY			4. PROJECT TITLE AIRFIELD FIRE / CRASH RESCUE STATION	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 130-142	7. RPSUID/PROJECT NUMBER 2370/LJYC133003	8. PROJECT COST (\$000) 13,449	
<p>be constructed on the same site as the existing facility; for that reason, a temporary facility is required to house the current mission during the construction period. Facilities 370 and 372 will be demolished.</p> <p><u>CURRENT SITUATION:</u> The existing fire station is over 50 years old and structural stability, age and space availability are not adequate to provide and accommodate all fire protection functions. The structure itself is barely standing from the result of the earthquake back in 1999 and flooding in 1995; it is beyond economical repair. The current fire truck stalls are not wide enough to effectively and safely maneuver the current vehicle inventory into and out of the station, which adversely effects the response times. Fire vehicle exhaust emissions are not extracted to the outside of the facility. A separate personnel protective equipment cleaning area is not provided. There are not enough vehicle bays to house all of our vehicles; parking vehicles outside does not keep fire trucks protected from the harsh weather, especially in summer. Existing facilities have numerous safety and building code violations.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The existing fire station will continue to operate with many safety and building code violations, without a vehicle exhaust extraction system exposing personnel to toxic vehicle exhaust and without adequate space to meet Air Force Requirements. Vehicles will continue to be parked outside in order to meet response times because of the slow egress from the current facility.</p> <p><u>ADDITIONAL:</u> This project meets applicable criteria/scope specified in AF Manual 32-1084, Facility Requirements. This project is partially eligible for NATO funding. A precautionary pre-finance statement will be submitted in the event it becomes eligible. This project meets the criteria/scope specified in UFC 4-730-10 Fire Stations, Air Force Fire Station Design Guides and Air Force Hand Book 32-1084 Facility Requirements. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements: new construction. Therefore, no economic analysis was needed or performed. A certificate of exception has been prepared. Base Civil Engineer: 011-90-322-316-6423. Airfield Crash/Fire Rescue Station: 3,626 SM = 39,016 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: LIRA 2.8346</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION INCIRLIK AIR BASE ADANA INCIRLIK AB SITE # 1 TURKEY		4. PROJECT TITLE AIRFIELD FIRE / CRASH RESCUE STATION	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 130-142	7. PROJECT NUMBER 2370/LJYC133003	8. PROJECT COST (\$000) 13,449
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			538
(4) Construction Contract Award			17 JUN
(5) Construction Start			17 SEP
(6) Construction Completion			19 AUG
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS	3400	2018	250
KITCHEN EQUIPMENT	3400	2018	125
COMMUNICATION EQUIPMENT	3400	2018	250
EXERCISE EQUIPMENT	3400	2018	100

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYMMDD) 20150911				
3. INSTALLATION AND LOCATION AL DHAFRA AIR BASE UNITED ARAB EMIRATES				4. COMMAND AIR COMBAT COMMAND (AFCENT)			5. AREA CONSTRUCTION COST INDEX 1.19				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30-Sep-15	Approx		3409							3,409
b. END FY	2021	Approx		3409							3,409
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE		Note 1									
b. INVENTORY TOTAL AS OF		30-Sep-15									Note 1
c. AUTHORIZATION NOT YET IN INVENTORY											0
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)											35,400
e. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018-2021)											0
f. REMAINING DEFICIENCY											0
g. GRAND TOTAL											35,400
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)											
		CATEGORY						COST		DESIGN STATUS	
<u>CODE</u>	<u>PROJECT TITLE</u>				<u>SCOPE</u>			<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>	
211-152	Large Aircraft Maintenance Hangar				6,000 SM			35,400	06/15	09/16	
							TOTAL	35,400			
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018-FY 2021)											
							TOTAL	0			
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	0			
10. MISSION OR MAJOR FUNCTIONS											
Established in Southwest Asia in January 2002, the 380th Air Expeditionary Wing is home to approximately 3,000 personnel completing one of the most diverse combat wings in the Air Force. The wing is comprised of 4 groups and 16 squadrons. Its mission partners include an Army air defense battalion and a Navy aerial maritime surveillance detachment.											
Note 1: Not a US owned installation; therefore we do not have real property data											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - FY 2021)											
a. Air Pollution											0
b. Water Pollution											0
c. Occupational Safety and Health											0
d. Other Environmental											0
							TOTAL	0			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION AL DHAFRA AIR BASE AL DHAFRA AB SITE # 1 UNITED ARAB EMIRATES			4. PROJECT TITLE LARGE AIRCRAFT MAINTENANCE HANGAR		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 211-152	7. RPSUID/PROJECT NUMBER 1575/DHAF152900	8. PROJECT COST (\$000) 35,400		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					17,683
MAINTENANCE HANGAR (211-152)		SM	6,000	2,889	(17,336)
SUSTAINABILITY & ENERGY MEASURES		LS			(347)
SUPPORTING FACILITIES					14,262
SITE IMPROVEMENTS		LS			(1,395)
PAVEMENTS		LS			(3,444)
UTILITIES		LS			(4,186)
COMMUNICATIONS		LS			(2,261)
FIRE PROTECTION		LS			(1,281)
ANTI-TERRORISM/FORCE PROTECTION		LS			(1,695)
SUBTOTAL					31,945
CONTINGENCY (5.0%)					1,597
TOTAL CONTRACT COST					33,542
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					2,180
TOTAL REQUEST					35,722
TOTAL REQUEST (ROUNDED)					35,400
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(600.0)
10. Description of Proposed Construction: Design and construct a 6000 SM single-bay aircraft maintenance hangar, sized for KC-10, C-17 and KC-46 aircraft with fuel cell maintenance capabilities, fire detection and suppression, environmental control, aircraft access to the apron, and interior office space. Project will include all civil, structural, mechanical, electrical, communication, fire protection, and all other supporting work necessary to construct a complete and useable facility. Building construction type will be insulated metal structure with partial CMU walls for offices, concrete foundation, floor slab to support aircraft jacking, and structural steel framed doors. Supporting facilities will include pavement work to allow access from the apron to the hangar. Facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements, and UFC 1-200-02 High Performance and Sustainable Building Requirements. This project will comply with DoD and CENTCOM anti-terrorism/force protection requirements per UFC 4-010-01.					
11. Requirement: 6000 SM Adequate: 0 SM Substandard: 0 SM					
PROJECT: Large Aircraft Maintenance Hangar (Current Mission)					
REQUIREMENT: A single-bay maintenance hangar is required to support the current fleet of KC-10s that sustain aerial refueling operations in the CENTCOM AOR, and other large frame aircraft at Al Dhafra AB, United Arab Emirates. More than 50 aircraft will utilize this facility including E-3 AWACS, F-15 Eagle, F-22 Raptor, KC-46, U-2 and RQ-4 Global Hawk. This fleet of aircraft at Al Dhafra AB has a					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION AL DHAFRA AIR BASE AL DHAFRA AB SITE # 1 UNITED ARAB EMIRATES			4. PROJECT TITLE LARGE AIRCRAFT MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 211-152	7. RPSUID/PROJECT NUMBER 1575/DHAF152900	8. PROJECT COST (\$000) 35,400	
<p>diverse set of missions to include crucial reconnaissance, strategic fighter capability and essential air refueling support for the entire AOR. There is a critical requirement for Fuel Cell Maintenance, Phasing Maintenance, and Repair and Reclamation Maintenance. Fuel cell maintenance must be conducted indoors and the hangar will include adequate space per AFI 21-101 for opening fuel cell panels, crawling inside, and inspecting/repairing pumps and other critical components. The U-2 also requires an area to complete phase maintenance inspections, an annual requirement in a controlled environment. The Repair and Reclamation Team is tasked with repairing rigs and adjusting flight control system which require the surrounding environment to maintain a consistent temperature and humidity to perform repairs. All of these critical maintenance functions need to be completed inside an environmentally controlled facility to prevent damage to the aircraft and sustain a safe work space for the 380th Expeditionary Maintenance Group.</p> <p>CURRENT SITUATION: The 380th AEW has been identified as an enduring location and currently has no permanent hangar facilities. The 380th Expeditionary Maintenance Group is not capable of maintaining over 50 critical aircraft they service at Al Dhafra AB due to a lack of conditioned space that they need to fulfill mission requirements. In 2013, five different mission sorties were delayed or lost due to lack of indoor maintenance space. Because the location of the current fuel cell is on an active apron, entire crew shifts can be lost when fuel cell maintenance is being conducted. Fuel Cell crews must stop all work when an aircraft is taxiing to and from the runway. In addition, extreme weather, including temperatures over 120 deg F in the summer, caused safety issues with conducting maintenance outside during the summer months. Maintenance crews can only work extensive in-tank fuels repairs and flight control rigging at night because of these safety issues. This restriction leads to a loss of aircraft availability which causes significant mission impacts. Currently, repair and reclamation can only be done during the cooler time of day which limits the amount of work that can be completed. Similarly, during the extreme temperatures, engine changes and other extensive repairs are very difficult and take longer because of the dangerous high temperature of the metal of the aircraft. During a 6-month period in 2013, 85.5% of maintenance write-ups for the E-3 aircraft and 60.1% of maintenance write-ups for KC-10 took place from April-October with 124 heat stress indications. Beside the temperatures at Al Dhafra Air Base, there is also a need to protect valuable Air Force assets for other environmental hazards such as high winds, dust, and humidity. Performing these maintenance functions off site at other locations in the AOR results in mission delays and substantial additional costs. Last year alone, \$10M was lost due to rotating aircraft out of Al Dhafra AB for maintenance.</p> <p>IMPACT IF NOT PROVIDED: Al Dhafra Air Base will continue operating with limited aircraft maintenance capability which will significantly degrade aerial refueling capability in the AOR. Lacking a conditioned space to perform critical maintenance, away from all environmental hazards, maintainers will have to continue improvising maintenance procedures and practices that could be dangerous to the Airman working on the aircraft. In addition to the dangerous conditions, availability of critical aircraft is lost by rotating aircraft out of Al Dhafra Air Base for routine maintenance instead of making the repairs locally. Finally, the</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION AL DHAFRA AIR BASE AL DHAFRA AB SITE # 1 UNITED ARAB EMIRATES			4. PROJECT TITLE LARGE AIRCRAFT MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 211-152	7. RPSUID/PROJECT NUMBER 1575/DHAF152900	8. PROJECT COST (\$000) 35,400	
<p>Air Force could continue to lose \$10M a year by rotating aircraft for fuel cell maintenance, phasing maintenance, and repair and reclamation maintenance. Maintenance time and aircraft down-time will continue to be hampered by airlift support LIMFACs in the AOR.</p> <p>ADDITIONAL: AFMAN 32-1084 authorizes three hangar bay spaces based on Table 3.1, assuming steady-state assignment of 12 KC-10 aircraft. This project meets the criteria/scope specified in the AFMAN 32-1084, Facility Requirements. Siting and sizing meets requirements of UFC 3-260-1 and 4-211-01N. A preliminary analysis of reasonable options for meeting this requirement (status quo, renovation, new construction) was accomplished. It indicates there is only one option that will meet the operational requirements: new construction. A certificate of exception is being prepared. This project is supported by CENTCOM and is on the Master Plan Priority List (MPPL) as a top priority. AFCENT POC: 803-895-8843. Maintenance Hangar, 6,000 SM = 64,583 SF.</p> <p>JOINT USE CERTIFICATION: This hangar can be used by other components on an as-available basis; however, the scope of the project is based on Air Force requirements. The project will aid these organizations conducting ongoing Overseas Contingency Operations (OCO).</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION AL DHAFRA AIR BASE AL DHAFRA AB SITE # 1 UNITED ARAB EMIRATES		4. PROJECT TITLE LARGE AIRCRAFT MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 211-152	7. PROJECT NUMBER 1575/DHAF152900	8. PROJECT COST (\$000) 35,400
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			15-JUN-15
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			29-FEB-16
(e) Date Design Complete			30-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			2,124
(b) All Other Design Costs			1,062
(c) Total			3,186
(d) Contract			2,655
(e) In-house			531
(4) Construction Contract Award			17 FEB
(5) Construction Start			17 MAR
(6) Construction Completion			19 JUN
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE, FIXTURES, & EQUIP	3400	2018	100
COMMUNICATIONS EQUIP	3080	2018	500

1. COMPONENT AIR FORCE		FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD)				
3. INSTALLATION AND LOCATION RAF CROUGHTON UNITED KINGDOM					4. COMMAND UNITED STATES AIR FORCES IN EUROPE			5. AREA CONSTRUCTION COST INDEX 1.11				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN		
a. AS OF	30-Sep-15	23	338	174	0	0	0	0	4	182	721	
b. END FY	2021	23	338	172	0	0	0	0	4	182	719	
7. INVENTORY DATA (\$000)												
a. TOTAL ACREAGE		694										
b. INVENTORY TOTAL AS OF		30-Sep-15										583,734
c. AUTHORIZATION NOT YET IN INVENTORY												132,000
d. AUTHORIZATION REQUESTED IN THIS PROGRAM (FY 2017)												69,582
f. PLANNED IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)												5,200
g. REMAINING DEFICIENCY												13,550
h. GRAND TOTAL												804,066
8. PROJECTS REQUESTED IN THIS PROGRAM (FY 2017)												
CATEGORY					SCOPE			COST		DESIGN STATUS		
<u>CODE</u>	<u>PROJECT TITLE</u>							<u>(\$000)</u>	<u>START</u>	<u>COMPLETE</u>		
141-456	JIAC Consolidation, Ph3				12,295 SM			53,082	DESIGN-BUILD			
730-832	Main Gate Complex				1,386 SM			16,500	DESIGN-BUILD			
							TOTAL	69,582				
9. FUTURE PROJECTS IN NEXT FOUR PROGRAM YEARS (FY 2018 - FY 2021)												
740-884	Child Development Center, B440				900 SM			5,200				
							TOTAL	5,200				
R&M UNFUNDED REQUIREMENT (\$M)							TOTAL	5.8				
10. MISSION OR MAJOR FUNCTIONS												
Provide outstanding installation support, services, force protection, and worldwide communications to the warfighter across the entire spectrum of operations. Supports NATO, EUCOM, CENTCOM, AFSPC, DoS & MoD operations. Sustain over 420 command and control circuits supporting 25% of all European Theatre to CONUS communications.												
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES (FY 2017 - 2021)												
a. Air Pollution											0	
b. Water Pollution											0	
c. Occupational Safety and Health											0	
d. Other Environmental											0	
							TOTAL	0				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM		4. PROJECT TITLE JOINT INTELLIGENCE ANALYSIS COMPLEX CONSOLIDATION, PH3		
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-456	7. RPSUID/PROJECT NUMBER 1638/EXSW143013	8. PROJECT COST (\$000) 53,082	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				38,698
REGIONAL JOINT INTEL TRAINING FAC (141-456)	SM	2,276	5,470	(12,450)
PHYSICAL FITNESS TRAINING FACILITY (740-674)	SM	7,119	2,500	(17,798)
COMMISSARY (740-266)	SM	2,900	2,700	(7,830)
SUSTAINABILITY AND ENERGY MEASURES	LS			(621)
SUPPORTING FACILITIES				8,857
UTILITIES	LS			(2,775)
SITE IMPROVEMENTS	LS			(1,676)
PAVEMENTS, WALKWAYS, CURB, GUTTER, LIGHTING	LS			(1,153)
DEMOLITION	SM	1,826	250	(457)
EXTERIOR COMMUNICATIONS	LS			(1,456)
SPORTS FIELD RELOCATION	LS			(718)
EMERGENCY GENERATORS	LS			(621)
SUBTOTAL				47,554
CONTINGENCY (5.0%)				2,378
TOTAL CONTRACT COST				49,932
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				1,248
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,902
TOTAL REQUEST				53,083
TOTAL REQUEST (ROUNDED)				53,082)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(3,150
10. Description of Proposed Construction: Construct Regional Joint Intelligence Training Facility (RJITF), Physical Fitness Training Facility and a Commissary using conventional design and construction methods to accommodate the missions of the facilities. A Sensitive Compartmented Information Facility (SCIF) will be constructed as part of the RJITF. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. Air Conditioning: 250 Tons				
11. Requirement: 10019 SM Adequate: 0 SM Substandard: 8402 SM <u>PROJECT:</u> Construct Joint Intelligence Analysis Complex, Phase 3 (New Mission) <u>REQUIREMENT:</u> This project is required to provide a purpose-built Joint Intelligence Analysis and Production Complex which recapitalizes and consolidates all RAF Molesworth (RAFM) Intelligence operations and missions in support of US European Command (USEUCOM) and US Africa Command (USAFRICOM). This				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM			4. PROJECT TITLE JOINT INTELLIGENCE ANALYSIS COMPLEX CONSOLIDATION, PH3	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-456	7. RPSUID/PROJECT NUMBER 1638/EXSW143013	8. PROJECT COST (\$000) 53,082	
<p>consolidation/relocation to RAF Croughton (enduring communication installation) will create operational and mission support efficiencies and allow divestiture of RAFs Molesworth and Alconbury (1,800,000 sq ft). This project is required to recapitalize inadequate and inefficient, nonpurpose-built intelligence analytic facilities at RAFM and to provide additional, purpose-built space to fully enable current intelligence missions directed since the USEUCOM Joint Intelligence Operations Center (JIOCEUR) Analytic Center (JAC) stood up in 1991 and USAFRICOM J2-M in 2008. These organizations provide all-source intelligence during peace, crisis and war, 24/7/365. This project is required to support responsive and agile Theater, Joint, all-source intelligence analysis & production, gain and maintain information dominance, and to support the COCOM's Strategy of Active Security through intelligence Building Partnership Capacity (BPC) and Partner Nation Engagement (PNE) missions. The CJCS-signed Joint Intelligence Center Executive Order (DTG 03160Z APR 06) directed establishment of JIOC facilities at all COCOMs "to operate together as a cohesive team." To effectively carry out this critical mission, the USEUCOM JAC and USAFRICOM J2-M require adequately sized and effectively configured facility that consolidates intelligence personnel with other national and international intelligence agency representatives to provide coherent, timely, actionable intelligence to the US, NATO and Coalition forces. Work space is needed for approximately 1,200 personnel with rapid expansion capability to integrate up to 81 Joint Reserve Intelligence Support Element Reserve personnel during surge operations.</p> <p><u>CURRENT SITUATION:</u> Intelligence mission growth at RAFM of over 500% since 1991 has resulted in a severe shortfall of intelligence spaces, resulting in intel missions being housed in over 21 undersized, widely-dispersed facilities, including a WWII B-17 hangar, several Cold War Cruise Missile facilities and leased, relocatable facilities. None of the current permanent facilities were purpose-built for their current use. This shortfall constrains COCOM decision making processes and collaborative intelligence analysis; and degrades the reliability of theater and national communications and intelligence assets. In addition to minimal Base Operations (BASOPS) expenditures, over \$90M in Intelligence Community mission funds have been spent since 2005 to keep these aging facilities and supporting utilities systems in a minimally sustainable state. Current Intelligence mission facilities are 13 miles from support facilities, wasting thousands of personnel-hours of analytic effort per year in travel time and exposing personnel to one of the UKs most hazardous and heavily trafficked roads. Aging and inefficient primary power, back-up power and cooling systems critical to the intelligence mission are not able to be economically upgraded, due to the nature of existing facilities. System failures cause frequent down-time for intelligence analysts, wasting thousands of personnel-hours in analytical effort and exposing the COCOM to intelligence blackouts. Facilities do not meet current code criteria for AT/FP, handicap accessibility and life-safety. This consolidation project would save, avoid or allow reallocation of \$75M/yr in BASOP, CIVPERS, MILPERS and intelligence mission funding, including not having to fund current facility sustainment/maintenance backlog of \$191M, required to bring these facilities at RAFM to an operationally adequate and sustainable condition.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM			4. PROJECT TITLE JOINT INTELLIGENCE ANALYSIS COMPLEX CONSOLIDATION, PH3	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-456	7. RPSUID/PROJECT NUMBER 1638/EXSW143013	8. PROJECT COST (\$000) 53,082	
<p><u>IMPACT IF NOT PROVIDED:</u> Severe facility shortfalls and dispersion will continue to constrain USEUCOM JAC and USAFRICOM J2-M ability to provide responsive and agile intelligence in support of their respective Combatant Commanders. Training to support intelligence BPC and PNE will continue to be constrained, levying an inordinate burden on the US Intelligence Community to support NATO and Coalition intelligence missions. Intelligence sustainment training and professional development for US intelligence personnel will continue to be constrained. Unanticipated power and cooling system failures will continue to cost thousands of hours of joint analytical effort per year. The Government will continue to spend \$74M/year to support and sustain this mission and will be forced to invest up to \$191 million to restore and modernize these facilities. Intel personnel will continue to be housed in facilities which do not meet current code criteria for AT/FP, handicap accessibility and life-safety, and which do not provide an adequate Quality of Life or Quality of Service. Intelligence facilities will continue to be geographically separated from support facilities, wasting additional thousands of hours of analytic effort.</p> <p><u>ADDITIONAL:</u> This project meets applicable criteria/scope specified in AF Manual 32-1084, Facility Requirements. This is Phase 3 of 3 and supports the consolidation and relocation of the intel missions; previous phases were Phase 1 (EXSW143010) in FY15 for \$92.2M and Phase 2 (EXSW143012) in FY16 for \$94.2M. Training and Mission Support requirements are not eligible for NATO Security Investment Program (NSIP) funding. A preliminary analysis of alternatives for accomplishing this project indicated the best option to meet operational requirements is new construction. Therefore, no economic analysis was needed or performed. A waiver was prepared. This project has been coordinated with the installation physical security plan, and all physical security measures are included. RJITF: 2,276 SM = 24,497 SF; Fitness Center: 7,119 SM = 76,621 SF; Commissary: 2,900 SM = 31,213 SF. Base Civil Engineer: 011-44-1280-708169</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: POUND .6473</p> <p><u>JOINT USE CERTIFICATION:</u> This facility is programmed for joint use with all the services; however, it is fully funded by the Air Force.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM		4. PROJECT TITLE JOINT INTELLIGENCE ANALYSIS COMPLEX CONSOLIDATION, PH3	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 141-456	7. PROJECT NUMBER 1638/EXSW143013	8. PROJECT COST (\$000) 53,082
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			1,000
(4) Construction Contract Award			17 APR
(5) Construction Start			17 OCT
(6) Construction Completion			20 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed			NO
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNISHINGS - PRI FACILITIES	3400	2019	2,000
TELEPHONES	3400	2019	150
FITNESS CENTER EQUIPMENT	3400	2019	1,000

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM		4. PROJECT TITLE MAIN GATE COMPLEX			
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 730-832	7. RPSUID/PROJECT NUMBER 1638/EXSW143011	8. PROJECT COST (\$000) 16,500		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					5,033
VISITOR CONTROL CENTER		SM	200	4,396	(879)
LARGE VEHICLE AND POV INSPECTION		SM	650	3,142	(2,042)
GATE HOUSE/ID CHECK		SM	30	4,396	(132)
OVERWATCH		SM	6	4,396	(26)
CANOPY		SM	500	1,727	(864)
DENIAL BARRIER SYSTEMS		LS			(990)
SUSTAINABILITY AND ENERGY MEASURES		LS			(100)
SUPPORTING FACILITIES					9,710
UTILITIES		LS			(1,900)
LOCAL HIGHWAY AUTHORITY BASE ACCESS REQ		LS			(1,150)
SITE IMPROVEMENTS		LS			(650)
PAVEMENTS, WALKWAYS, CURB AND GUTTER		LS			(4,640)
VEHICLE PARKING AND LIGHTING		LS			(780)
EXTERIOR COMMUNICATIONS		LS			(425)
LANDSCAPING		LS			(165)
SUBTOTAL					14,743
CONTINGENCY (5.0%)					737
TOTAL CONTRACT COST					15,480
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)					387
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)					590
TOTAL REQUEST					16,457
TOTAL REQUEST (ROUNDED)					16,500)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(400
10. Description of Proposed Construction: Construct a compliant main gate complex with large vehicle inspection station (LVIS) utilizing economical design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
Air Conditioning: 5 Tons					
11. Requirement: 1386 SM Adequate: 0 SM Substandard: 9 SM					
<u>PROJECT:</u> Main Gate Complex. (Current Mission)					
<u>REQUIREMENT:</u> This project is required to provide a purpose-built, UFC compliant Main Gate Complex and LVIS to support current mission operations. Constructs new installation entrance in accordance with required standards providing the required					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM			4. PROJECT TITLE MAIN GATE COMPLEX	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 730-832	7. RPSUID/PROJECT NUMBER 1638/EXSW143011	8. PROJECT COST (\$000) 16,500	
<p>stand-off distances prescribed that are not achievable at existing entrances. Facilitate 422d Security Forces with ability to inspect and search all vehicles and personnel requiring entry and to validate and issue identification documents to visiting personnel.</p> <p><u>CURRENT SITUATION:</u> RAF Croughton's existing entry control point is not compliant. Current entry control has no traffic speed reduction capability and no queuing capacity (less than 50 meters to public roadway), which creates dangerous traffic congestion on public roadway. Additionally, a lack of a large vehicle inspection station means that security forces personnel must close an entry lane to inspect vehicles at the guard shack. If a suspicious vehicle exists, the public road to freeway must be closed and all entry into the installation stops. Lack of a visitor processing center creates distractions for security personnel working entry control since all visitors must be processed at the guard shack.</p> <p><u>IMPACT IF NOT PROVIDED:</u> If suspicious items are identified at the gate, the entire gate must be shut down. This effectively seals off access to the installation, and impacts the installation's ability to conduct its mission. In addition, traffic flows remain unsafe, and accidents will continue to plague our entrance. Current operations will continue to impact the off-base Host Nation population, thus impacting our relationship. This could also impact current and future operations by slowing approval of projects, which require local planning approval, to sustain, restore or modernize mission or mission support operations until off-base impacts are reduced. A new compliant gate will significantly reduce off-base impacts and allow for more complete physical security inspections, thus safeguarding critical mission operations.</p> <p><u>ADDITIONAL:</u> This project is not eligible for NATO funding, and we do not anticipate this becoming eligible in the future. This project meets applicable criteria/scope specified in DoD 2000.16, Unified Facilities Criteria (UFC) 4-022-01 and Air Force Handbook 32-1084, Facility Requirements. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements: new construction. Therefore, no economic analysis was needed or performed. A waiver has been prepared. Base Civil Engineer: COMM +44-1280-708169. Main Gate Complex: Visitor Control Center 200 SM = 2,152 SF; Large Vehicle and POV Inspection: 650 SM = 7,000 SF; Gate House/ID Check/Overwatch 36 SM = 390 SF; Canopy: 500 SM = 5,380 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: POUND .6473</p> <p><u>JOINT USE CERTIFICATION:</u> This is an installation utility/infrastructure project, and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM		4. PROJECT TITLE MAIN GATE COMPLEX	
5. PROGRAM ELEMENT 27576	6. CATEGORY CODE 730-832	7. PROJECT NUMBER 1638/EXSW143011	8. PROJECT COST (\$000) 16,500
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Project to be accomplished by design-build procedures			
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) All Other Design Costs			660
(4) Construction Contract Award			17 MAY
(5) Construction Start			17 JUN
(6) Construction Completion			18 DEC
(7) Energy Study/Life-Cycle analysis was/will be performed			YES
b. Equipment associated with this project provided from other appropriations:			
EQUIPMENT NOMENCLATURE	PROCURING APPRC	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
TELEPHONES, OTHER EQUIP	3400	2018	40
INTRUSION DETECTION EQUIP	3080	2018	60
FURNISHINGS/STORAGE LOCKERS	3400	2018	300

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION HQ USAF DISTRICT OF COLUMBIA		4. PROJECT TITLE UNSPECIFIED MINOR MILITARY CONSTRUCTION		
5. PROGRAM ELEMENT 91211	6. CATEGORY CODE 962-000	7. RPSUID/PROJECT NUMBER /PAYZ170003	8. PROJECT COST (\$000) 30,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				30,000
MILCON MINOR CONSTRUCTION	LS			(30,000)
SUPPORTING FACILITIES				0
SUBTOTAL				30,000
TOTAL CONTRACT COST				30,000
TOTAL REQUEST				30,000
TOTAL REQUEST (ROUNDED)				30,000
10. Description of Proposed Construction:				
11. Requirement: Adequate: Substandard:				
PROJECT: As required.				
REQUIREMENT: Minor construction projects authorized by 10 U.S. Code 2805 are military construction projects with an estimated funded cost of more than \$750,000 and equal or less than \$3,000,000 (\$4,000,000 for projects solely to correct a life, health, safety deficiency). This authority provides a means of accomplishing projects that are not identified but which are anticipated to arise during FY17. Included would be projects to support new mission requirements, new equipment, and other essential support to Air Force missions.				

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1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION WORLDWIDE UNSPECIFIED VARIOUS LOCATIONS		4. PROJECT TITLE PLANNING AND DESIGN			
5. PROGRAM ELEMENT 91211	6. CATEGORY CODE 961-000	7. RPSUID/PROJECT NUMBER /PAYZ170002	8. PROJECT COST (\$000) 143,582		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					143,582
PLANNING AND DESIGN (91211)		LS			(84,862)
PLANNING AND DESIGN (41319)		LS			(18,720)
PLANNING AND DESIGN (91211)		LS			(40,000)
SUPPORTING FACILITIES					0
SUBTOTAL					<u>143,582</u>
TOTAL CONTRACT COST					<u>143,582</u>
TOTAL REQUEST					143,582
TOTAL REQUEST (ROUNDED)					143,582
10. Description of Proposed Construction:					
11. Requirement: Adequate: Substandard:					
PROJECT: As required.					
REQUIREMENT: These planning and design funds are required to complete the design of facilities in the FY18 Military Construction Program, initiate design of facilities in the FY19 Military Construction Program, and accomplish planning and design for major and complex technical projects with long lead-times to be included in subsequent Military Construction programs. These funds may be used for value engineering and for support of the design and construction management of projects that are funded by foreign governments and for design of classified and special programs. The funds may also be used for developing the Tri-Services Cost Estimating Guide and Unified Facilities Criteria.					

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Department of the Air Force

Military Construction Program

Fiscal Year (FY) 2017 Overseas Contingency Operations Request

**Justification Data Submitted to Congress
February 2016**

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**DEPARTMENT OF THE AIR FORCE
FISCAL YEAR 2017 OVERSEAS CONTINGENCY OPERATIONS REQUEST
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**DEPARTMENT OF THE AIR FORCE
OVERSEAS CONTINGENCY OPERATIONS MILITARY CONSTRUCTION FISCAL YEAR 2017
PROGRAM SUMMARY**

	Authorization Request <u>(\$000s)</u>	Appropriation Request <u>(\$000s)</u>
Military Construction		
Contingency Locations	10,500	10,500
Planning and Design (10 USC 2807)	940	940
Total Military Construction	11,440	11,440

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**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
INDEX -OVERSEAS CONTINGENCY OPERATIONS
(DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
DJIBOUTI	Chabelley Airfield	OCO: Construct Chabelley Access Road	3,600	3,600
		OCO: Construct Parking Apron and Taxiway	6,900	6,900
		Chabelley Airfield TOTAL:	10,500	10,500
		DJIBOUTI TOTAL:	10,500	10,500
		OCO: Planning and Design Total	940	940
		OVERSEAS CONTINGENCY OPERATIONS TOTAL:	11,440	11,440

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1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION CHABELLEY AIRFIELD DJIBOUTI		4. PROJECT TITLE OCO: CONSTRUCT CHABELLEY ACCESS ROAD			
5. PROGRAM ELEMENT 14494	6. CATEGORY CODE 851-147	7. RPSUID/PROJECT NUMBER /CADJ170001	8. PROJECT COST (\$000) 3,600		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					3,158
ACCESS ROAD (851-147)		SM	39,321	78	(3,067)
ROAD BRIDGE (851-142)		EA	2	45,500	(91)
SUPPORTING FACILITIES					60
SITE PREP		LS			(60)
SUBTOTAL					3,218
CONTINGENCY (5.0%)					161
TOTAL CONTRACT COST					3,379
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					220
TOTAL REQUEST					3,599
TOTAL REQUEST (ROUNDED)					3,600
10. Description of Proposed Construction: Construct 3.4 miles of asphalt-surfaced road for main access to Chabelley Airfield (CADJ), Djibouti. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
11. Requirement: 39321 SM Adequate: 0 SM Substandard: 39321 SM PROJECT: Construct Chabelley Access Road REQUIREMENT: Chabelley Airfield is the only location in East Africa from which armed Intelligence, Surveillance and Reconnaissance (ISR) assets are authorized to operate. It supports Operation Enduring Freedom - Horn of Africa (OEF-HOA) for combating militant Islamism and piracy and supports additional RPA being bedded down at Chabelley Airfield. The road is the lone access route to Chabelley Airfield and is required in order to execute the base's mission. All personnel, supplies and equipment are transported via this route. Improvement of this road from gravel-surfaced to asphalt-surfaced will significantly reduce the risk to the Chabelley Airfield mission. Personnel, supplies and equipment will be able to traverse the route in a safer manner and the weather will have less impact on the ability to traverse the route. Additionally, the road is critical for certain emergency response support. In case of an Explosive Ordnance Disposal emergency, the closest support is at Chabelley Airfield. The road requires improvements for critical support response times to be met. CURRENT SITUATION: There is one major access road to Chabelley Airfield, which is used daily by personnel to travel from billeting at Camp Lemonnier (CLDJ) to work at Chabelley Airfield. A 3.4 mile stretch of primarily unsurfaced gravel road is in disrepair must be addressed. Typical throughout the length of the gravel road is wash boarding, edge washout, protruding boulders (usually around 3.5 cubic feet in size), and potholes (up to 9 square feet in size). Additionally, there are two					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION CHABELLEY AIRFIELD DJIBOUTI			4. PROJECT TITLE OCO: CONSTRUCT CHABELLEY ACCESS ROAD	
5. PROGRAM ELEMENT 14494	6. CATEGORY CODE 851-147	7. RPSUID/PROJECT NUMBER /CADJ170001	8. PROJECT COST (\$000) 3,600	
<p>culvert crossings that have caved in. Over a period of time, the culverts have filled with surrounding earth, which obstructs the culvert causing additional road washout during rain events. There is also a 30 meter length of concrete road that crosses a wadi bed. When the area receives rain, the water level in the wadi rises up to 4 feet above the road level, making the road impassible. When the wadi fills, individuals must be temporarily billeted on Chabelley Airfield or transported via air until the water level drops. The road has been shut down due to flooding several times since operations began at Chabelley Airfield. Over the past six months, there has been at least one vehicle rollover where the cause was attributed directly to the road condition. Additionally due to the condition of the road, high value equipment items must be transported the 7.5 miles from Djibouti to Chabelley Airfield via air.</p> <p>IMPACT IF NOT PROVIDED: Without this project, the road will continue to be a safety hazard for the operations personnel that travel on it daily. Emergency support based out of Djibouti will be hindered by the road conditions, delaying response time. When the wadi fills with water during the rainy season, land access to Chabelley Airfield will be obstructed.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in AF Manual 32-1084, "Facility Requirements". A companion O&M project will be included to repair the two culverts. 39,321 SM = 47,028 SY.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE																										
3. INSTALLATION AND LOCATION CHABELLEY AIRFIELD DJIBOUTI		4. PROJECT TITLE OCO: CONSTRUCT CHABELLEY ACCESS ROAD																											
5. PROGRAM ELEMENT 14494	6. CATEGORY CODE 851-147	7. PROJECT NUMBER /CADJ170001	8. PROJECT COST (\$000) 3,600																										
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>07-JAN-16</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>YES</td> </tr> <tr> <td>* (c) Percent Complete as of 01 JAN 2016</td> <td>15%</td> </tr> <tr> <td>* (d) Date 35% Designed</td> <td>14-JUL-16</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>30-SEP-16</td> </tr> <tr> <td>(f) Energy Study/Life-Cycle analysis was/will be performed</td> <td>NO</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>216</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>108</td> </tr> <tr> <td>(c) Total</td> <td>324</td> </tr> <tr> <td>(d) Contract</td> <td>270</td> </tr> <tr> <td>(e) In-house</td> <td>54</td> </tr> </table> <p>(4) Construction Contract Award 17 MAR</p> <p>(5) Construction Start 17 APR</p> <p>(6) Construction Completion 18 JUN</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.</p> <p>b. Equipment associated with this project provided from other appropriations: N/A</p>				(a) Date Design Started	07-JAN-16	(b) Parametric Cost Estimates used to develop costs	YES	* (c) Percent Complete as of 01 JAN 2016	15%	* (d) Date 35% Designed	14-JUL-16	(e) Date Design Complete	30-SEP-16	(f) Energy Study/Life-Cycle analysis was/will be performed	NO	(a) Standard or Definitive Design -	NO	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	216	(b) All Other Design Costs	108	(c) Total	324	(d) Contract	270	(e) In-house	54
(a) Date Design Started	07-JAN-16																												
(b) Parametric Cost Estimates used to develop costs	YES																												
* (c) Percent Complete as of 01 JAN 2016	15%																												
* (d) Date 35% Designed	14-JUL-16																												
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(e) In-house	54																												

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION CHABELLEY AIRFIELD DJIBOUTI		4. PROJECT TITLE CONSTRUCT PARKING APRON AND TAXIWAY			
5. PROGRAM ELEMENT 14494	6. CATEGORY CODE 113-321	7. RPSUID/PROJECT NUMBER /CADJ170002	8. PROJECT COST (\$000) 6,900		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					6,051
TAXIWAY AND APRON (113-321/112211)		SM	8,718	138	(1,203)
HANGAR PADS (112211)		SM	16,335	180	(2,940)
CARGO APRON AND TAXIWAY (113-321/112211)		SM	10,600	180	(1,908)
SUPPORTING FACILITIES					100
SITE PREP		LS			(100)
SUBTOTAL					6,151
CONTINGENCY (5.0%)					308
TOTAL CONTRACT COST					6,459
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					420
TOTAL REQUEST					6,879
TOTAL REQUEST (ROUNDED)					6,900
10. Description of Proposed Construction: Remove approximately 25,053 SM of AM-2 matting and replace it with asphalt or concrete, as applicable to the specific area. Construct approximately 8,718 SM of asphalt taxiway and parking apron designed for MQ-1 and MQ-9 aircraft. Construct thirteen (13) concrete hanger pads totaling approximately 16,335 SM designed for MQ-1 and MQ-9 aircraft. Construct a concrete cargo aircraft apron with associated taxiway designed for one (1) C-17. Work will include all subgrade, sub base and base course work required to achieve designed soil bearing capacity. Work will also include all pavement markings and installation of engine run tie downs as required. Pavements shall be built in accordance with ETL 9-01, Airfield Planning and Design Criteria for Unmanned Aircraft Systems, for MQ-1/MQ-9 aircraft, ETL 97-9, Criteria and Guidance for C-17 Contingency and Training operations on Semi-Prepared Airfields and UFC 3-260-02, Pavement Design for Airfields. This work is anticipated to be completed by local contract. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.					
11. Requirement: 35653 SM Adequate: 0 SM Substandard: 25053 SM PROJECT: Construct Parking Apron and Taxiway REQUIREMENT: Chabelley Airfield is the only location in East Africa from which armed Intelligence, Surveillance and Reconnaissance (ISR) assets are authorized to operate. It supports Operation Enduring Freedom - Horn of Africa (OEF-HOA) for combating militant Islamism and piracy. In March 2014, USAFRICOM updated the operational guidance and extended the planned mission duration for Chabelley Airfield from 2 years to 10 years and reclassified it as an enduring Contingency Support Location (CSL). The use of AM-2 matting is intended as a temporary,					

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION, SITE AND LOCATION CHABELLEY AIRFIELD DJIBOUTI			4. PROJECT TITLE CONSTRUCT PARKING APRON AND TAXIWAY	
5. PROGRAM ELEMENT 14494	6. CATEGORY CODE 113-321	7. RPSUID/PROJECT NUMBER /CADJ170002	8. PROJECT COST (\$000) 6,900	
<p>rapidly executable solution for an aircraft parking surface. It is not intended for long-term use and is prone to subsurface washout in the event of heavy rain. Typical damage caused by washout includes depressions and/or bulges in the AM-2 surface. These are two of the most significant types of surface distresses affecting RPAs. Repair of the AM-2 base requires the AM-2 to be removed, the base to be excavated and replaced making spot repairs very difficult. Major repair work to the AM/2 surface is expected to be required in the next 1-2 years. Replacing the AM-2 with asphalt and/or concrete will provide an operating surface that is designed for the expected duration of the mission at Chabelley Airfield. The cargo apron and access taxiway will be constructed out of concrete versus asphalt because of the expected surge traffic. When cargo aircraft sharply turn on asphalt, especially in hot weather, the asphalt is susceptible to damage. Concrete is also the preferred surface for maintenance hangers because it is less susceptible to damage from fuel, oil spills or leaks, is less permeable than asphalt and easier to clean. Once removed, the AM-2 matting will be returned to the severely depleted Air Force War Reserve Material (WRM) stock to be reconstituted and prepared for use in other contingency situations. This project is in accordance with the 2015 Chabelley Installation Development Plan.</p> <p>CURRENT SITUATION: In 2013, USAFRICOM directed AFAFRICA to rapidly beddown Remotely Piloted Aircraft (RPA) at Chabelley Airfield with an expected mission duration not to exceed 2 years. An AM-2 apron and taxiway, along with seven Large Area Maintenance Shelters (LAMS) with AM-2 floors, were constructed to meet the requirement. In 2014, an additional taxiway, parallel to the first, was constructed out of asphalt. In early 2015, additional AM-2 was placed to expand the apron and provide increased hanger space to accommodate additional RPAs being bedded down at Chabelley Airfield. Loading and unloading of cargo aircraft at Chabelley Airfield must occur on the runway as no adequate parking apron exist, therefore interrupting runway operations.</p> <p>IMPACT IF NOT PROVIDED: Without this project, the AM-2 surface and base will exceed its design life and eventually degrade to the point where it puts aircraft operations at risk. Subsurface issues will create conditions that can damage RPAs and continued use will wear out the AM-2 surface. Though replacement of AM-2 mat is generally a separate appropriation, it is costlier to replace AM-2 than to place asphalt or concrete. Delaying this project will also continue to tie up a very large quantity of AM-2, a high demand, low density asset across the Department of Defense. Finally, without the cargo apron, airfield operations will continue to be impacted when aircraft must park on the runway during loading and unloading.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in AF Manual 32-1084, Facility Requirements. 35,653 SM = 42,640 SY</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION CHABELLEY AIRFIELD DJIBOUTI		4. PROJECT TITLE CONSTRUCT PARKING APRON AND TAXIWAY	
5. PROGRAM ELEMENT 14494	6. CATEGORY CODE 113-321	7. PROJECT NUMBER /CADJ170002	8. PROJECT COST (\$000) 6,900
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Date Design Started			14-JAN-16
(b) Parametric Cost Estimates used to develop costs			YES
* (c) Percent Complete as of 01 JAN 2016			15%
* (d) Date 35% Designed			14-JUL-16
(e) Date Design Complete			15-SEP-16
(f) Energy Study/Life-Cycle analysis was/will be performed			NO
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			
(3) Total Cost (c) = (a) + (b) or (d) + (e):			(\$000)
(a) Production of Plans and Specifications			414
(b) All Other Design Costs			208
(c) Total			622
(d) Contract			518
(e) In-house			104
(4) Construction Contract Award			17 MAR
(5) Construction Start			17 APR
(6) Construction Completion			18 JUN
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.			
b. Equipment associated with this project provided from other appropriations: N/A			

1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION HQ USAF DISTRICT OF COLUMBIA		4. PROJECT TITLE OCO: PLANNING AND DESIGN			
5. PROGRAM ELEMENT 91211	6. CATEGORY CODE 961-000	7. RPSUID/PROJECT NUMBER /PAYZ18002	8. PROJECT COST (\$000) 940		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					940
PLANNING AND DESIGN		LS			(940)
SUPPORTING FACILITIES					0
SUBTOTAL					940
TOTAL CONTRACT COST					940
TOTAL REQUEST					940
TOTAL REQUEST (ROUNDED)					940
10. Description of Proposed Construction:					
11. Requirement: Adequate: Substandard:					
PROJECT: As required.					
REQUIREMENT: These planning and design funds are required to complete the design of facilities in the Overseas Contingency Operations (OCO) Military Construction Program in support of Operation Enduring Freedom - Horn of Africa (OEF- HOA). These funds may be used for value engineering and for support of the design and construction management of projects that are funded by foreign governments and for design of classified and special programs.					

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Department of the Air Force

Military Construction Program

Fiscal Year (FY) 2017 European Reassurance Initiatives Request

**Justification Data Submitted to Congress
February 2016**

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**DEPARTMENT OF THE AIR FORCE
FISCAL YEAR 2017 EUROPEAN REASSURANCE INITIATIVES REQUEST
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**DEPARTMENT OF THE AIR FORCE
EUROPEAN REASSURANCE INITIATIVE MILITARY CONSTRUCTION FISCAL YEAR 2017
PROGRAM SUMMARY**

	Authorization Request <u>(\$000s)</u>	Appropriation Request <u>(\$000s)</u>
Total Military Construction	68,300	68,300

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**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2017
INDEX - EUROPEAN REASSURANCE INITIATIVES
(DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
BULGARIA	Graf Ignatievo AB	ERI: Construct Squadron Operations	3,800	3,800
		ERI: Fighter Ramp Extension	7,000	7,000
		ERI: Upgrade Munitions Storage	2,600	2,600
		Graf Ignatievo AB TOTAL:	13,400	13,400
BULGARIA TOTAL			13,400	13,400
ESTONIA	Amari AB	ERI: Construct Bulk Fuel Storage	6,500	6,500
		Amari AB TOTAL:	6,500	6,500
		ESTONIA TOTAL	6,500	6,500
GERMANY	Spangdahlem AB	ERI: Construct High Capacity Trim Pad	1,000	1,000
		ERI: F/A-22 Low Observable/Composite	12,000	12,000
		ERI: F/A-22 Upgrade Infrastructure/Communications/Utilities	1,600	1,600
		ERI: Upgrade Hardened Aircraft Shelters for F/A-22	2,700	2,700
		ERI: Upgrade Munition Storage Doors	1,400	1,400
		Spangdahlem AB TOTAL:	18,700	18,700
GERMANY TOTAL:			18,700	18,700
LITHUANIA	Siauliai AB	ERI: Munitions Storage	3,000	3,000
		Siauliai AB TOTAL:	3,000	3,000
		LITHUANIA TOTAL:	3,000	3,000
POLAND	Lask AB	ERI: Construct Squadron Operations	4,100	4,100
		Lask AB TOTAL:	4,100	4,100
	Powidz AB	ERI: Construct Squadron Operations	4,100	4,100
		Powidz AB TOTAL:	4,100	4,100
	POLAND TOTAL:			8,200
ROMANIA	Campia Turzii AB	ERI: Construct Munitions Storage Area	3,000	3,000
		ERI: Construct Squadron Operations Building	3,400	3,400
		ERI: Construct Two-Bay Hangar	6,100	6,100
		ERI: Extend Parking Apron	6,000	6,000
		Campia Turzii AB TOTAL:	18,500	18,500
ROMANIA TOTAL:			18,500	18,500
EUROPEAN REASSURANCE INITIATIVES TOTAL:			68,300	68,300

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1. Component Air Force		FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016	
3. Installation and Location/UIC: Graf Ignatievo AB, Bulgaria			4. Project Title: ERI: Construct Squadron Operations/ Operation Alert Facility			
5. Program Element TBD		6. Category Code TBD	7. Project Number LBPG150009		8. Project Cost (\$000) 3,800	
9. COST ESTIMATES						
Item			U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITY						TBD
SUPPORTING FACILITIES						TBD
TOTAL REQUEST						3,800
TOTAL REQUEST (ROUNDED)						<u>TBD</u>
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(TBD)
<p>10. Description of Proposed Construction: This project constructs a 7,000 square foot facility to support aircrews during mobilization to Graf Ignatievo. Currently, US forces supporting ERI initiatives do not have a dedicated facility to conduct briefings and prepare for flight operations. This facility will provide aircrews with work space to manage and conduct flying operations.</p> <p>Air conditioning: TBD</p>						
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD</p> <p><u>PROJECT:</u> ERI: Construct Squadron Operations/ Operation Alert Facility</p> <p><u>REQUIREMENT:</u> This project will enhance Allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. This project also provides the infrastructure necessary for command and control, and increases the capacity for bed-down of aircraft.</p> <p><u>CURRENT SITUATION:</u> TBD</p> <p><u>IMPACT IF NOT PROVIDED:</u> Aircrews will not be able to conduct command and control functions. The Air Force will be limited in their ability to bed down additional missions and aircraft at Graf Ignatievo. Currently, there are significant limitations on the ability to accomplish the mission. Failure to fund this project will restrict flying operations, and significantly limit the Department's ability to support peacetime and contingency operations.</p> <p><u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing.</p> <p><u>JOINT USE CERTIFICATION:</u> TBD</p>						
<p>12. Supplemental Data:</p> <p>A. Design Data (Estimates)</p> <p>(1) Status</p> <p>(a) Date Design Started TBD</p> <p>(b) Percent Complete as of January 2016 0%</p> <p>(c) Date Design 35% Complete Mar 17</p>						

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Graf Ignatievo AB, Bulgaria		4. Project Title: ERI: Construct Squadron Operations/ Operation Alert Facility		
5. Program Element TBD	6. Category Code TBD	7. Project Number LBPG150009	8. Project Cost (\$000) 3,800	
(d) Date Design 100% Complete (e) Parametric Cost Estimates Used to Develop Costs (f) Type of Design Contract (g) Energy Study and Life Cycle Analysis Performed (2) Basis (a) Standard or Definitive Design Used (b) Where Design Was Previously Used (3) Total Cost (a) Production of Plans and Specification (b) All Other Design Costs (c) Total Cost (a + b or d + e) (d) Contract Cost (e) In-House Cost (4) Construction Contract Award Date (5) Construction Start Date (6) Construction Completion Date				TBD Yes TBD TBD TBD (\$000) TBD TBD TBD TBD TBD Jul 17 Sep 17 Sep 19
B. Equipment associated with this project which will be provided from other appropriations:				
Equipment <u>Nomenclature</u> TBD	Procuring <u>Appropriation</u> TBD	FY Appropriated <u>or Requested</u> TBD	Cost <u>(\$000)</u> TBD	
<p>This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.</p>				

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016	
3. Installation and Location/UIC: Graf Ignatievo AB, Bulgaria		4. Project Title: ERI: Fighter Ramp Extension			
5. Program Element TBD	6. Category Code TBD	7. Project Number LBPG150008	8. Project Cost (\$000) 7,000		
9. COST ESTIMATES					
	Item	U/M	Quantity	Unit Cost	Cost (\$000)
	PRIMARY FACILITY				TBD
	SUPPORTING FACILITIES				TBD

	TOTAL REQUEST				7,000
	TOTAL REQUEST (ROUNDED)				<u>TBD</u>
	EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(TBD)
<p>10. Description of Proposed Construction: This project expands the existing fighter apron to allow for additional parking spots which facilitate a squadron of 12 fighter jets. Currently, squadrons supporting rotations at Graf Ignatievo have to park aircraft on multiple small aprons which creates a barrier for maintenance crews and aircrews. In some situations, only 8 aircraft are permitted to park on the airfield. This project will allow rotations to centralize parking and reduce distance and time between aircraft.</p> <p>Air conditioning: TBD</p>					
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD</p> <p><u>PROJECT:</u> ERI: Fighter Ramp Extension</p> <p><u>REQUIREMENT:</u> This project will enhance Allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. Current AGM aprons are natural earth and concrete construction, yielding an unsafe worksite with numerous ruts and uneven surfaces due to erosion. This project also provides the infrastructure necessary for command and control, and increases the capacity for bed-down of aircraft (parking and maintenance abilities).</p> <p><u>CURRENT SITUATION:</u> TBD</p> <p><u>IMPACT IF NOT PROVIDED:</u> The Air Force will be limited in their ability to bed down additional missions and aircraft at Graf Ignatievo. Aircraft will not be properly parked or maintained during periods of inclement weather and darkness due to limited lighting on current small aprons. Currently, there are significant limitations on the ability to accomplish the mission. Lack of adequate apron space will impose significant challenges for aircrews and maintenance crews. Failure to fund this project will restrict operations, significantly impact throughput, and limit the Department's ability to support peacetime and contingency operations.</p> <p><u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing.</p> <p><u>JOINT USE CERTIFICATION:</u> TBD</p>					

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Graf Ignatievo AB, Bulgaria			4. Project Title: ERI: Fighter Ramp Extension	
5. Program Element TBD	6. Category Code TBD	7. Project Number LBPG150008	8. Project Cost (\$000) 7,000	

12. Supplemental Data:

A. Design Data (Estimates)

- (1) Status
 - (a) Date Design Started TBD
 - (b) Percent Complete as of January 2016 0%
 - (c) Date Design 35% Complete Mar 17
 - (d) Date Design 100% Complete TBD
 - (e) Parametric Cost Estimates Used to Develop Costs Yes
 - (f) Type of Design Contract TBD
 - (g) Energy Study and Life Cycle Analysis Performed TBD
- (2) Basis
 - (a) Standard or Definitive Design Used TBD
 - (b) Where Design Was Previously Used
- (3) Total Cost (\$000)
 - (a) Production of Plans and Specification TBD
 - (b) All Other Design Costs TBD
 - (c) Total Cost (a + b or d + e) TBD
 - (d) Contract Cost TBD
 - (e) In-House Cost TBD
- (4) Construction Contract Award Date Jul 17
- (5) Construction Start Date Sep 17
- (6) Construction Completion Date Sep 18

B. Equipment associated with this project which will be provided from other appropriations:

<u>Equipment</u> <u>Nomenclature</u>	<u>Procuring</u> <u>Appropriation</u>	<u>FY Appropriated</u> <u>or Requested</u>	<u>Cost</u> <u>(\$000)</u>
TBD	TBD	TBD	TBD

This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.

1. Component Air Force		FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016	
3. Installation and Location/UIC: Graf Ignatievo AB, Bulgaria			4. Project Title: ERI: Upgrade Munitions Storage			
5. Program Element TBD		6. Category Code TBD	7. Project Number LBPG150010		8. Project Cost (\$000) 2,600	
9. COST ESTIMATES						
Item		U/M	Quantity	Unit Cost	Cost (\$000)	
PRIMARY FACILITY					TBD	
SUPPORTING FACILITIES					TBD	
TOTAL REQUEST					----- 2,600	
TOTAL REQUEST (ROUNDED)					<u>TBD</u>	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(TBD)	
<p>10. Description of Proposed Construction: This project installs munitions storage pads to hold containerized munitions along with an entry road, forklift turnaround area, and lightning protection system for each pad. This project also moves the existing storage munitions area from the center of base to a more isolated area which mitigates the impact of explosive safety arcs on habited facilities and industrial areas.</p> <p>Air conditioning: TBD</p>						
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD</p> <p><u>PROJECT:</u> ERI: Upgrade Munitions Storage</p> <p><u>REQUIREMENT:</u> This project will enhance Allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. Containerized storage space on the airbase is insufficient and does not satisfy operational requirements. This project reduces the shortfall by providing additional storage space. This project also removes several weapons storage safety violations by relocating the munitions storage area.</p> <p><u>CURRENT SITUATION:</u> TBD</p> <p><u>IMPACT IF NOT PROVIDED:</u> Weapons transfer and storage capabilities will not meet contingency operations requirements. Currently, there are significant limitations on the ability to accomplish the mission. Failure to fund this project will restrict operations, and significantly limit the Department's ability to support peacetime and contingency operations.</p> <p><u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing.</p> <p><u>JOINT USE CERTIFICATION:</u> TBD</p>						
<p>12. Supplemental Data:</p> <p>A. Design Data (Estimates)</p> <p>(1) Status</p> <p>(a) Date Design Started TBD</p> <p>(b) Percent Complete as of January 2016 0%</p> <p>(c) Date Design 35% Complete Mar 17</p>						

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Graf Ignatievo AB, Bulgaria			4. Project Title: ERI: Upgrade Munitions Storage	
5. Program Element TBD	6. Category Code TBD	7. Project Number LBPG150010	8. Project Cost (\$000) 2,600	
(d) Date Design 100% Complete TBD (e) Parametric Cost Estimates Used to Develop Costs Yes (f) Type of Design Contract TBD (g) Energy Study and Life Cycle Analysis Performed TBD (2) Basis (a) Standard or Definitive Design Used TBD (b) Where Design Was Previously Used (3) Total Cost (\$000) (a) Production of Plans and Specification TBD (b) All Other Design Costs TBD (c) Total Cost (a + b or d + e) TBD (d) Contract Cost TBD (e) In-House Cost TBD (4) Construction Contract Award Date Jul 17 (5) Construction Start Date Sep 17 (6) Construction Completion Date Sep 18 B. Equipment associated with this project which will be provided from other appropriations:				
Equipment <u>Nomenclature</u> TBD	Procuring <u>Appropriation</u> TBD	FY Appropriated <u>or Requested</u> TBD	Cost <u>(\$000)</u> TBD	
<p style="text-align: center;">This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.</p>				

1. Component Air Force		FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016	
3. Installation and Location/UIC: Amari AB, Estonia			4. Project Title: ERI: Construct Bulk Fuel Storage			
5. Program Element TBD		6. Category Code TBD	7. Project Number EEEE150006		8. Project Cost (\$000) 6,500	
9. COST ESTIMATES						
Item		U/M	Quantity	Unit Cost	Cost (\$000)	
PRIMARY FACILITY					TBD	
SUPPORTING FACILITIES					TBD	
TOTAL REQUEST					----- 6,500	
TOTAL REQUEST (ROUNDED)					TBD	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(TBD)	
<p>10. Description of Proposed Construction: This project installs additional fuel storage capability and a fuel pipeline loop to supply the aircraft apron with refueling capability to support fighter aircraft operations and ensure reliable refueling operations. The current capacity is approximately 100,000 gallons and this project will increase storage capacity to approximately 350,000 gallons.</p> <p>Air conditioning: TBD</p>						
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD</p> <p><u>PROJECT:</u> ERI: Construct Bulk Fuel Storage</p> <p><u>REQUIREMENT:</u> This project will enhance allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. Amari airfield has limited refueling capability. Additional permanent fuel storage must be constructed to provide the capacity to support combined contingency operations efficiently and cost-effectively. This project will also provide a fuel pipeline loop to reduce the time necessary for cargo aircraft fueling operations.</p> <p><u>CURRENT SITUATION:</u> TBD</p> <p><u>IMPACT IF NOT PROVIDED:</u> The airbase will not have sufficient fuel capacity to sustain NATO contingency operations. Amari airfield has limited refueling capability. Additional permanent fuel storage must be constructed to provide the capacity to support combined contingency operations efficiently and cost-effectively. Currently fuel is limited and large aircraft must refuel at the airport instead of on base.</p> <p><u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing.</p> <p><u>JOINT USE CERTIFICATION:</u> TBD</p>						
<p>12. Supplemental Data:</p> <p>A. Design Data (Estimates)</p> <p>(1) Status</p> <p>(a) Date Design Started TBD</p> <p>(b) Percent Complete as of January 2016 0%</p> <p>(c) Date Design 35% Complete Mar 17</p>						

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Amari AB, Estonia			4. Project Title: ERI: Construct Bulk Fuel Storage	
5. Program Element TBD	6. Category Code TBD	7. Project Number EEEE150006	8. Project Cost (\$000) 6,500	
(d) Date Design 100% Complete (e) Parametric Cost Estimates Used to Develop Costs (f) Type of Design Contract (g) Energy Study and Life Cycle Analysis Performed (2) Basis (a) Standard or Definitive Design Used (b) Where Design Was Previously Used (3) Total Cost (\$000) (a) Production of Plans and Specification (b) All Other Design Costs (c) Total Cost (a + b or d + e) (d) Contract Cost (e) In-House Cost (4) Construction Contract Award Date (5) Construction Start Date (6) Construction Completion Date				TBD Yes TBD TBD TBD TBD TBD TBD TBD TBD TBD Jul 17 Sep 17 Sep 19
B. Equipment associated with this project which will be provided from other appropriations:				
<u>Equipment</u>	<u>Procuring</u>	<u>FY Appropriated</u>	<u>Cost</u>	
<u>Nomenclature</u>	<u>Appropriation</u>	<u>or Requested</u>	<u>(\$000)</u>	
TBD	TBD	TBD	TBD	
<p>This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.</p>				

1. Component Air Force		FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016	
3. Installation and Location/UIC: Spangdahlem AB, Germany			4. Project Title: ERI: Construct High Capacity Trim Pad and Hush House			
5. Program Element TBD		6. Category Code TBD	7. Project Number VYHK170005		8. Project Cost (\$000) 1,000	
9. COST ESTIMATES						
Item			U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITY						TBD
SUPPORTING FACILITIES						TBD
TOTAL REQUEST						----- 1,000,000
TOTAL REQUEST (ROUNDED)						<u>TBD</u>
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(TBD)
<p>10. Description of Proposed Construction: This project provides an F/A-22 compliant high capacity trim pad and hush house in support of F/A-22 aircraft operations on the airfield. The trim pad will provide capability to accommodate F/A-22 thrust of 35,000 pounds per engine and upward exhaust vents. A hush house is required due to environmental noise considerations at Spangdahlem AB.</p> <p>Air conditioning: TBD</p>						
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD <u>PROJECT:</u> ERI: Construct High Capacity Trim Pad and Hush House <u>REQUIREMENT:</u> This project will enhance allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. This project provides the infrastructure necessary to bed-down and maintain F/A-22 aircraft and operations. Current trim pads do not meet thrust rating required when running both F/A-22 engines. <u>CURRENT SITUATION:</u> TBD <u>IMPACT IF NOT PROVIDED:</u> 5th generation aircraft will not be able to support EUCOM/NATO combined operations from Spangdahlem AB due to limited parking areas and inadequate maintenance capabilities. <u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing. <u>JOINT USE CERTIFICATION:</u> TBD</p>						
<p>12. Supplemental Data:</p> <p>A. Design Data (Estimates)</p> <p>(1) Status</p> <p>(a) Date Design Started TBD</p> <p>(b) Percent Complete as of January 2016 0%</p> <p>(c) Date Design 35% Complete Mar 17</p> <p>(d) Date Design 100% Complete TBD</p>						

1. Component Air Force		FY 2017 MILITARY CONSTRUCTION PROJECT DATA		2. Date Feb 2016	
3. Installation and Location/UIC: Spangdahlem AB, Germany			4. Project Title: ERI: Construct High Capacity Trim Pad and Hush House		
5. Program Element TBD		6. Category Code TBD	7. Project Number VYHK170005	8. Project Cost (\$000) 1,000	
(e) Parametric Cost Estimates Used to Develop Costs				Yes	
(f) Type of Design Contract				TBD	
(g) Energy Study and Life Cycle Analysis Performed				TBD	
(2) Basis					
(a) Standard or Definitive Design Used				TBD	
(b) Where Design Was Previously Used					
(3) Total Cost				(\$000)	
(a) Production of Plans and Specification				TBD	
(b) All Other Design Costs				TBD	
(c) Total Cost (a + b or d + e)				TBD	
(d) Contract Cost				TBD	
(e) In-House Cost				TBD	
(4) Construction Contract Award Date				Jul 17	
(5) Construction Start Date				Sep 17	
(6) Construction Completion Date				Sep 18	
B. Equipment associated with this project which will be provided from other appropriations:					
<u>Equipment</u>	<u>Procuring</u>	<u>FY Appropriated</u>	<u>Cost</u>		
<u>Nomenclature</u>	<u>Appropriation</u>	<u>or Requested</u>	<u>(\$000)</u>		
TBD	TBD	TBD	TBD		
<p>This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.</p>					

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016	
3. Installation and Location/UIC: Spangdahlem AB, Germany		4. Project Title: ERI: F/A-22 Low Observable/Composite Repair Facility			
5. Program Element TBD	6. Category Code TBD	7. Project Number VYHK170004	8. Project Cost (\$000) 12,000		
9. COST ESTIMATES					
Item		U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITY					TBD
SUPPORTING FACILITIES					TBD
TOTAL REQUEST					----- 12,000
TOTAL REQUEST (ROUNDED)					<u>TBD</u>
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(TBD)
<p>10. Description of Proposed Construction: This project provides a single bay, low observable (LO) composite repair facility to support F/A-22 aircraft operations on the airfield. 5th generation aircraft require specialized LO equipment/facilities for repairs currently not available at Spangdahlem AB. The facility will be capable of supporting F/A-22 unique communication and utility system requirements.</p> <p>Air conditioning: TBD</p>					
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD</p> <p><u>PROJECT:</u> ERI: F/A-22 Low Observable/Composite Repair Facility</p> <p><u>REQUIREMENT:</u> This project will enhance allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. This project provides the infrastructure necessary to bed-down and maintain F/A-22 aircraft and operations.</p> <p><u>CURRENT SITUATION:</u> TBD</p> <p><u>IMPACT IF NOT PROVIDED:</u> 5th generation aircraft will not be able to support EUCOM/NATO combined operations from Spangdahlem AB due to inadequate maintenance capabilities.</p> <p><u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing.</p> <p><u>JOINT USE CERTIFICATION:</u> TBD</p>					
<p>12. Supplemental Data:</p> <p>A. Design Data (Estimates)</p> <p>(1) Status</p> <p>(a) Date Design Started TBD</p> <p>(b) Percent Complete as of January 2016 0%</p> <p>(c) Date Design 35% Complete Mar 17</p> <p>(d) Date Design 100% Complete TBD</p>					

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Spangdahlem AB, Germany		4. Project Title: ERI: F/A-22 Low Observable/Composite Repair Facility		
5. Program Element TBD	6. Category Code TBD	7. Project Number VYHK170004	8. Project Cost (\$000) 12,000	
(e) Parametric Cost Estimates Used to Develop Costs				Yes
(f) Type of Design Contract				TBD
(g) Energy Study and Life Cycle Analysis Performed				TBD
(2) Basis				
(a) Standard or Definitive Design Used				TBD
(b) Where Design Was Previously Used				
(3) Total Cost				(\$000)
(a) Production of Plans and Specification				TBD
(b) All Other Design Costs				TBD
(c) Total Cost (a + b or d + e)				TBD
(d) Contract Cost				TBD
(e) In-House Cost				TBD
(4) Construction Contract Award Date				Jul 17
(5) Construction Start Date				Sep 17
(6) Construction Completion Date				Sep 19
B. Equipment associated with this project which will be provided from other appropriations:				
<u>Equipment</u>	<u>Procuring</u>	<u>FY Appropriated</u>	<u>Cost</u>	
<u>Nomenclature</u>	<u>Appropriation</u>	<u>or Requested</u>	<u>(\$000)</u>	
TBD	TBD	TBD	TBD	
<p>This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.</p>				

1. Component Air Force		FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016											
3. Installation and Location/UIC: Spangdahlem AB, Germany				4. Project Title: ERI: F/A-22 Upgrade Infrastructure/Communications/ Utilities												
5. Program Element TBD		6. Category Code TBD	7. Project Number VYHK170002		8. Project Cost (\$000) 1,600											
9. COST ESTIMATES																
				U/M	Quantity	Unit Cost	Cost (\$000)									
PRIMARY FACILITY							TBD									
SUPPORTING FACILITIES							TBD									
TOTAL REQUEST							1,600									
TOTAL REQUEST (ROUNDED)							<u>TBD</u>									
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(TBD)									
<p>10. Description of Proposed Construction: This project provides upgrades to communication lines to accommodate 5th generation aircraft in support of F/A-22 ground operations in the Munitions Storage Area. Existing copper communications lines will be upgraded to fiber optic lines that support the 5th Generation aircraft systems.</p> <p>Air conditioning: TBD</p>																
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD</p> <p><u>PROJECT:</u> ERI: F/A-22 Upgrade Infrastructure/Communications/ Utilities</p> <p><u>REQUIREMENT:</u> This project will enhance allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. This project provides the infrastructure necessary to bed-down and maintain F/A-22 aircraft and operations.</p> <p><u>CURRENT SITUATION:</u> TBD</p> <p><u>IMPACT IF NOT PROVIDED:</u> 5th generation aircraft will not be able to support EUCOM/NATO combined operations from Spangdahlem AB.</p> <p><u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing.</p> <p><u>JOINT USE CERTIFICATION:</u> TBD</p>																
<p>12. Supplemental Data:</p> <p>A. Design Data (Estimates)</p> <p>(1) Status</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">(a) Date Design Started</td> <td style="text-align: right;">TBD</td> </tr> <tr> <td style="padding-left: 20px;">(b) Percent Complete as of January 2016</td> <td style="text-align: right;">0%</td> </tr> <tr> <td style="padding-left: 20px;">(c) Date Design 35% Complete</td> <td style="text-align: right;">Mar 17</td> </tr> <tr> <td style="padding-left: 20px;">(d) Date Design 100% Complete</td> <td style="text-align: right;">TBD</td> </tr> <tr> <td style="padding-left: 20px;">(e) Parametric Cost Estimates Used to Develop Costs</td> <td style="text-align: right;">Yes</td> </tr> </table>							(a) Date Design Started	TBD	(b) Percent Complete as of January 2016	0%	(c) Date Design 35% Complete	Mar 17	(d) Date Design 100% Complete	TBD	(e) Parametric Cost Estimates Used to Develop Costs	Yes
(a) Date Design Started	TBD															
(b) Percent Complete as of January 2016	0%															
(c) Date Design 35% Complete	Mar 17															
(d) Date Design 100% Complete	TBD															
(e) Parametric Cost Estimates Used to Develop Costs	Yes															

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Spangdahlem AB, Germany		4. Project Title: ERI: F/A-22 Upgrade Infrastructure/Communications/ Utilities		
5. Program Element TBD	6. Category Code TBD	7. Project Number VYHK170002	8. Project Cost (\$000) 1,600	
(f) Type of Design Contract		TBD		
(g) Energy Study and Life Cycle Analysis Performed		TBD		
(2) Basis				
(a) Standard or Definitive Design Used		TBD		
(b) Where Design Was Previously Used				
(3) Total Cost		(\$000)		
(a) Production of Plans and Specification		TBD		
(b) All Other Design Costs		TBD		
(c) Total Cost (a + b or d + e)		TBD		
(d) Contract Cost		TBD		
(e) In-House Cost		TBD		
(4) Construction Contract Award Date		Jul 17		
(5) Construction Start Date		Sep 17		
(6) Construction Completion Date		Sep 18		
B. Equipment associated with this project which will be provided from other appropriations:				
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	FY Appropriated <u>or Requested</u>	Cost <u>(\$000)</u>	
TBD	TBD	TBD	TBD	
<p>This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.</p>				

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016												
3. Installation and Location/UIC: Spangdahlem AB, Germany		4. Project Title: ERI: Upgrade Hardened Aircraft Shelters for F/A-22														
5. Program Element TBD	6. Category Code TBD	7. Project Number VYHK170001	8. Project Cost (\$000) 2,700													
9. COST ESTIMATES																
Item		U/M	Quantity	Unit Cost	Cost (\$000)											
PRIMARY FACILITY					TBD											
SUPPORTING FACILITIES					TBD											
TOTAL REQUEST					----- 2,700											
TOTAL REQUEST (ROUNDED)					<u>TBD</u>											
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(TBD)											
<p>10. Description of Proposed Construction: This project upgrades hardened aircraft shelters to accommodate the F/A-22. It includes utility and lighting reconfiguration and installation of exhaust ducts to accommodate the upward Auxiliary Power Units.</p> <p>Air conditioning: TBD</p>																
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD</p> <p><u>PROJECT:</u> ERI: Upgrade Hardened Aircraft Shelters for F/A-22</p> <p><u>REQUIREMENT:</u> This project will enhance allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. This project provides the infrastructure necessary to bed-down and maintain F/A-22 aircraft and operations.</p> <p><u>CURRENT SITUATION:</u> TBD</p> <p><u>IMPACT IF NOT PROVIDED:</u> 5th generation aircraft will not be able to support EUCOM/NATO combined operations from Spangdahlem AB.</p> <p><u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing.</p> <p><u>JOINT USE CERTIFICATION:</u> TBD</p>																
<p>12. Supplemental Data:</p> <p>A. Design Data (Estimates)</p> <p>(1) Status</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">(a) Date Design Started</td> <td style="text-align: right;">TBD</td> </tr> <tr> <td>(b) Percent Complete as of January 2016</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>(c) Date Design 35% Complete</td> <td style="text-align: right;">Mar 17</td> </tr> <tr> <td>(d) Date Design 100% Complete</td> <td style="text-align: right;">TBD</td> </tr> <tr> <td>(e) Parametric Cost Estimates Used to Develop Costs</td> <td style="text-align: right;">Yes</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td style="text-align: right;">TBD</td> </tr> </table>					(a) Date Design Started	TBD	(b) Percent Complete as of January 2016	0%	(c) Date Design 35% Complete	Mar 17	(d) Date Design 100% Complete	TBD	(e) Parametric Cost Estimates Used to Develop Costs	Yes	(f) Type of Design Contract	TBD
(a) Date Design Started	TBD															
(b) Percent Complete as of January 2016	0%															
(c) Date Design 35% Complete	Mar 17															
(d) Date Design 100% Complete	TBD															
(e) Parametric Cost Estimates Used to Develop Costs	Yes															
(f) Type of Design Contract	TBD															

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Spangdahlem AB, Germany		4. Project Title: ERI: Upgrade Hardened Aircraft Shelters for F/A-22		
5. Program Element TBD	6. Category Code TBD	7. Project Number VYHK170001	8. Project Cost (\$000) 2,700	
(g) Energy Study and Life Cycle Analysis Performed				TBD
(2) Basis				
(a) Standard or Definitive Design Used				TBD
(b) Where Design Was Previously Used				
(3) Total Cost				(\$000)
(a) Production of Plans and Specification				TBD
(b) All Other Design Costs				TBD
(c) Total Cost (a + b or d + e)				TBD
(d) Contract Cost				TBD
(e) In-House Cost				TBD
(4) Construction Contract Award Date				Jul 17
(5) Construction Start Date				Sep 17
(6) Construction Completion Date				Sep 18
B. Equipment associated with this project which will be provided from other appropriations:				
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	FY Appropriated <u>or Requested</u>	Cost <u>(\$000)</u>	
TBD	TBD	TBD	TBD	
<p>This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.</p>				

1. Component Air Force		FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016													
3. Installation and Location/UIC: Spangdahlem AB, Germany				4. Project Title: ERI: Upgrade Munition Storage Doors														
5. Program Element TBD		6. Category Code TBD	7. Project Number VYHK170006		8. Project Cost (\$000) 1,400													
9. COST ESTIMATES																		
Item				U/M	Quantity	Unit Cost	Cost (\$000)											
PRIMARY FACILITY							TBD											
SUPPORTING FACILITIES							TBD											
TOTAL REQUEST							1,400											
TOTAL REQUEST (ROUNDED)							<u>TBD</u>											
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(TBD)											
<p>10. Description of Proposed Construction: This project upgrades the munitions storage doors in support of F/A-22 aircraft operations on the airfield. The allowable Net Explosive Weight in the existing igloos is limited because the current doors do not meet the designed 7-bar pressure requirement.</p> <p>Air conditioning: TBD</p>																		
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD</p> <p>PROJECT: Upgrade Munition Storage Doors</p> <p>REQUIREMENT: This project will enhance allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. This project provides the infrastructure necessary to bed-down and maintain F/A-22 aircraft and operations.</p> <p>CURRENT SITUATION: TBD</p> <p>IMPACT IF NOT PROVIDED: 5th generation aircraft will not be able to support EUCOM/NATO combined operations from Spangdahlem AB.</p> <p>ADDITIONAL: The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing.</p> <p>JOINT USE CERTIFICATION: TBD</p>																		
<p>12. Supplemental Data:</p> <p>A. Design Data (Estimates)</p> <p>(1) Status</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">(a) Date Design Started</td> <td style="text-align: right;">TBD</td> </tr> <tr> <td>(b) Percent Complete as of January 2016</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>(c) Date Design 35% Complete</td> <td style="text-align: right;">Mar 17</td> </tr> <tr> <td>(d) Date Design 100% Complete</td> <td style="text-align: right;">TBD</td> </tr> <tr> <td>(e) Parametric Cost Estimates Used to Develop Costs</td> <td style="text-align: right;">Yes</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td style="text-align: right;">TBD</td> </tr> </table>							(a) Date Design Started	TBD	(b) Percent Complete as of January 2016	0%	(c) Date Design 35% Complete	Mar 17	(d) Date Design 100% Complete	TBD	(e) Parametric Cost Estimates Used to Develop Costs	Yes	(f) Type of Design Contract	TBD
(a) Date Design Started	TBD																	
(b) Percent Complete as of January 2016	0%																	
(c) Date Design 35% Complete	Mar 17																	
(d) Date Design 100% Complete	TBD																	
(e) Parametric Cost Estimates Used to Develop Costs	Yes																	
(f) Type of Design Contract	TBD																	

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Spangdahlem AB, Germany		4. Project Title: ERI: Upgrade Munition Storage Doors		
5. Program Element TBD	6. Category Code TBD	7. Project Number VYHK170006	8. Project Cost (\$000) 1,400	
(g) Energy Study and Life Cycle Analysis Performed				TBD
(2) Basis				
(a) Standard or Definitive Design Used				TBD
(b) Where Design Was Previously Used				
(3) Total Cost				(\$000)
(a) Production of Plans and Specification				TBD
(b) All Other Design Costs				TBD
(c) Total Cost (a + b or d + e)				TBD
(d) Contract Cost				TBD
(e) In-House Cost				TBD
(4) Construction Contract Award Date				Jul 17
(5) Construction Start Date				Sep 17
(6) Construction Completion Date				Sep 18
B. Equipment associated with this project which will be provided from other appropriations:				
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	FY Appropriated <u>or Requested</u>	Cost <u>(\$000)</u>	
TBD	TBD	TBD	TBD	
<p>This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.</p>				

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Siauliai AB, Lithuania		4. Project Title: ERI: Munitions Storage		
5. Program Element TBD	6. Category Code TBD	7. Project Number EYSA150022	8. Project Cost (\$000) 3,000	
(d) Date Design 100% Complete (e) Parametric Cost Estimates Used to Develop Costs (f) Type of Design Contract (g) Energy Study and Life Cycle Analysis Performed (2) Basis (a) Standard or Definitive Design Used (b) Where Design Was Previously Used (3) Total Cost (\$000) (a) Production of Plans and Specification (b) All Other Design Costs (c) Total Cost (a + b or d + e) (d) Contract Cost (e) In-House Cost (4) Construction Contract Award Date (5) Construction Start Date (6) Construction Completion Date				TBD Yes TBD TBD TBD TBD TBD TBD TBD TBD TBD TBD Jul 17 Sep 17 Sep 18
B. Equipment associated with this project which will be provided from other appropriations:				
<u>Equipment</u> TBD	<u>Procuring</u> <u>Appropriation</u> TBD	<u>FY Appropriated</u> <u>or Requested</u> TBD	<u>Cost</u> <u>(\$000)</u> TBD	
<p style="text-align: center;">This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.</p>				

1. Component Air Force		FY 2017 MILITARY CONSTRUCTION PROJECT DATA				2. Date Feb 2016	
3. Installation and Location/UIC: Lask AB, Poland				4. Project Title: ERI: Construct Squadron Operations Facility			
5. Program Element TBD		6. Category Code TBD		7. Project Number EPLK150006		8. Project Cost (\$000) 4,100	
9. COST ESTIMATES							
Item				U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITY							TBD
SUPPORTING FACILITIES							TBD
TOTAL REQUEST							4,100
TOTAL REQUEST (ROUNDED)							<u>TBD</u>
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(TBD)
<p>10. Description of Proposed Construction: This project constructs a 7,000 square foot facility to support aircrews during mobilization to Lask. Currently, US forces supporting ERI initiatives do not have a dedicated facility to conduct briefings and prepare for flight operations. This facility will provide aircrews with work space to manage and conduct flying operations.</p> <p>Air conditioning: TBD</p>							
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD</p> <p><u>PROJECT:</u> ERI: Construct Squadron Operations Facility</p> <p><u>REQUIREMENT:</u> This project will enhance Allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. This project also provides the infrastructure necessary for command and control, and increases the capacity for bed-down of aircraft.</p> <p><u>CURRENT SITUATION:</u> TBD</p> <p><u>IMPACT IF NOT PROVIDED:</u> Aircrews will not be able to conduct command and control functions. The Air Force will be limited in their ability to bed down additional missions and aircraft at Lask. Currently, there are significant limitations on the ability to accomplish the mission. Failure to fund this project will restrict flying operations, and significantly limit the Department's ability to support peacetime and contingency operations.</p> <p><u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing.</p> <p><u>JOINT USE CERTIFICATION:</u> TBD</p>							
<p>12. Supplemental Data:</p> <p>A. Design Data (Estimates)</p> <p>(1) Status</p> <p>(a) Date Design Started TBD</p> <p>(b) Percent Complete as of January 2016 0%</p> <p>(c) Date Design 35% Complete Mar 17</p>							

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Lask AB, Poland		4. Project Title: ERI: Construct Squadron Operations Facility		
5. Program Element TBD	6. Category Code TBD	7. Project Number EPLK150006	8. Project Cost (\$000) 4,100	
(d) Date Design 100% Complete (e) Parametric Cost Estimates Used to Develop Costs (f) Type of Design Contract (g) Energy Study and Life Cycle Analysis Performed (2) Basis (a) Standard or Definitive Design Used (b) Where Design Was Previously Used (3) Total Cost (a) Production of Plans and Specification (b) All Other Design Costs (c) Total Cost (a + b or d + e) (d) Contract Cost (e) In-House Cost (4) Construction Contract Award Date (5) Construction Start Date (6) Construction Completion Date				TBD Yes TBD TBD TBD (\$000) TBD TBD TBD TBD TBD Jul 17 Sep 17 Sep 18
B. Equipment associated with this project which will be provided from other appropriations:				
Equipment <u>Nomenclature</u> TBD	Procuring <u>Appropriation</u> TBD	FY Appropriated <u>or Requested</u> TBD	Cost <u>(\$000)</u> TBD	
<p style="text-align: center;">This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.</p>				

1. Component Air Force		FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016	
3. Installation and Location/UIC: Powidz AB, Poland			4. Project Title: ERI: Construct Squadron Operations Facility			
5. Program Element TBD		6. Category Code TBD	7. Project Number EPPW170003		8. Project Cost (\$000) 4,100	
9. COST ESTIMATES						
Item		U/M	Quantity	Unit Cost	Cost (\$000)	
PRIMARY FACILITY					TBD	
SUPPORTING FACILITIES					TBD	
TOTAL REQUEST					4,100	
TOTAL REQUEST (ROUNDED)					TBD	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(TBD)	
<p>10. Description of Proposed Construction: This project constructs a 7,000 square foot facility to support aircrews during mobilization to Powidz. Currently, US forces supporting ERI initiatives do not have a dedicated facility to conduct briefings and prepare for flight operations. This facility will provide aircrews with work space to manage and conduct flying operations.</p> <p>Air conditioning: TBD</p>						
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD</p> <p><u>PROJECT:</u> ERI: Construct Squadron Operations Facility</p> <p><u>REQUIREMENT:</u> This project will enhance Allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. This project also provides the infrastructure necessary for command and control, and increases the capacity for bed-down of aircraft.</p> <p><u>CURRENT SITUATION:</u> TBD</p> <p><u>IMPACT IF NOT PROVIDED:</u> Aircrews will not be able to conduct command and control functions. The Air Force will be limited in their ability to bed down additional missions and aircraft at Powidz. Currently, there are significant limitations on the ability to accomplish the mission. Failure to fund this project will restrict flying operations, and significantly limit the Department's ability to support peacetime and contingency operations.</p> <p><u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing.</p> <p><u>JOINT USE CERTIFICATION:</u> TBD</p>						
<p>12. Supplemental Data:</p> <p>A. Design Data (Estimates)</p> <p>(1) Status</p> <p>(a) Date Design Started TBD</p> <p>(b) Percent Complete as of January 2016 0%</p> <p>(c) Date Design 35% Complete Mar 17</p>						

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Powidz AB, Poland		4. Project Title: ERI: Construct Squadron Operations Facility		
5. Program Element TBD	6. Category Code TBD	7. Project Number EPPW170003	8. Project Cost (\$000) 4,100	
(d) Date Design 100% Complete (e) Parametric Cost Estimates Used to Develop Costs (f) Type of Design Contract (g) Energy Study and Life Cycle Analysis Performed (2) Basis (a) Standard or Definitive Design Used (b) Where Design Was Previously Used (3) Total Cost (a) Production of Plans and Specification (b) All Other Design Costs (c) Total Cost (a + b or d + e) (d) Contract Cost (e) In-House Cost (4) Construction Contract Award Date (5) Construction Start Date (6) Construction Completion Date				TBD Yes TBD TBD TBD (\$000) TBD TBD TBD TBD TBD Jul 17 Sep 17 Sep 18
B. Equipment associated with this project which will be provided from other appropriations:				
<u>Equipment</u> TBD	<u>Procuring</u> <u>Appropriation</u> TBD	<u>FY Appropriated</u> <u>or Requested</u> TBD	<u>Cost</u> <u>(\$000)</u> TBD	
<p>This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.</p>				

1. Component Air Force		FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016		
3. Installation and Location/UIC: Campia Turzii AB, Romania				4. Project Title: ERI: Construct Munitions Storage Area			
5. Program Element TBD		6. Category Code TBD	7. Project Number LRCT150008		8. Project Cost (\$000) 3,000		
9. COST ESTIMATES							
Item				U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITY							TBD
SUPPORTING FACILITIES							TBD
TOTAL REQUEST							----- 3,000
TOTAL REQUEST (ROUNDED)							<u>TBD</u>
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(TBD)
10. Description of Proposed Construction: This project installs munitions storage igloos to hold containerized munitions along with an entry road, forklift turnaround area, and lightning protection system. Air conditioning: TBD							
11. Requirement: TBD Adequate: TBD Substandard: TBD <u>PROJECT:</u> ERI: Construct Munitions Storage Area <u>REQUIREMENT:</u> This project will enhance Allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. Containerized storage space on the airbase is insufficient and does not satisfy operational requirements. This project reduces the shortfall by providing additional storage space. This project also removes several weapons storage safety violations by relocating the munitions storage area. <u>CURRENT SITUATION:</u> TBD <u>IMPACT IF NOT PROVIDED:</u> Weapons transfer and storage capabilities will not meet contingency operations requirements. Currently, there are significant limitations on the ability to accomplish the mission. Lack of adequate space for storage of munition containers directly impacts the ability to meet operational requirements. Failure to fund this project will restrict operations, significantly impact throughput, and limit the Department's ability to support peacetime and contingency operations. <u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing. <u>JOINT USE CERTIFICATION:</u> TBD							

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Campia Turzii AB, Romania		4. Project Title: ERI: Construct Munitions Storage Area		
5. Program Element TBD	6. Category Code TBD	7. Project Number LRCT150008	8. Project Cost (\$000) 3,000	

12. Supplemental Data:

A. Design Data (Estimates)

(1) Status

- | | |
|---|--------|
| (a) Date Design Started | TBD |
| (b) Percent Complete as of January 2016 | 0% |
| (c) Date Design 35% Complete | Mar 17 |
| (d) Date Design 100% Complete | TBD |
| (e) Parametric Cost Estimates Used to Develop Costs | Yes |
| (f) Type of Design Contract | TBD |
| (g) Energy Study and Life Cycle Analysis Performed | TBD |

(2) Basis

- | | |
|--|-----|
| (a) Standard or Definitive Design Used | TBD |
| (b) Where Design Was Previously Used | |

(3) Total Cost (\$000)

- | | |
|---|-----|
| (a) Production of Plans and Specification | TBD |
| (b) All Other Design Costs | TBD |
| (c) Total Cost (a + b or d + e) | TBD |
| (d) Contract Cost | TBD |
| (e) In-House Cost | TBD |

(4) Construction Contract Award Date Jul 17

(5) Construction Start Date Sep 17

(6) Construction Completion Date Sep 18

B. Equipment associated with this project which will be provided from other appropriations:

<u>Equipment</u> <u>Nomenclature</u>	<u>Procuring</u> <u>Appropriation</u>	<u>FY Appropriated</u> <u>or Requested</u>	<u>Cost</u> <u>(\$000)</u>
TBD	TBD	TBD	TBD

This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.

1. Component Air Force		FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016	
3. Installation and Location/UIC: Campia Turzii AB, Romania			4. Project Title: ERI: Construct Squadron Operations Building			
5. Program Element TBD		6. Category Code TBD	7. Project Number LRCT150010		8. Project Cost (\$000) 3,400	
9. COST ESTIMATES						
Item			U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITY						TBD
SUPPORTING FACILITIES						TBD
TOTAL REQUEST						3,400
TOTAL REQUEST (ROUNDED)						<u>TBD</u>
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(TBD)
<p>10. Description of Proposed Construction: This project constructs a 7,000 square foot facility to support aircrews during mobilization to Campia Turzii. Currently, US forces supporting ERI initiatives do not have a dedicated facility to conduct briefings and prepare for flight operations. This facility will provide aircrews with work space to manage and conduct flying operations.</p> <p>Air conditioning: TBD</p>						
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD</p> <p><u>PROJECT:</u> ERI: Construct Squadron Operations Building</p> <p><u>REQUIREMENT:</u> This project will enhance Allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. This project also provides the infrastructure necessary for command and control, and increases the capacity for bed-down of aircraft.</p> <p><u>CURRENT SITUATION:</u> TBD</p> <p><u>IMPACT IF NOT PROVIDED:</u> Aircrews will not be able to conduct command and control functions. The Air Force will be limited in their ability to bed down additional missions and aircraft at Campia Turzii. Currently, there are significant limitations on the ability to accomplish the mission. Failure to fund this project will restrict flying operations, and significantly limit the Department's ability to support peacetime and contingency operations.</p> <p><u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing.</p> <p><u>JOINT USE CERTIFICATION:</u> TBD</p>						
<p>12. Supplemental Data:</p> <p>A. Design Data (Estimates)</p> <p>(1) Status</p> <p>(a) Date Design Started TBD</p> <p>(b) Percent Complete as of January 2016 0%</p> <p>(c) Date Design 35% Complete Mar 17</p>						

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Campia Turzii AB, Romania		4. Project Title: ERI: Construct Squadron Operations Building		
5. Program Element TBD	6. Category Code TBD	7. Project Number LRCT150010	8. Project Cost (\$000) 3,400	
(d) Date Design 100% Complete (e) Parametric Cost Estimates Used to Develop Costs (f) Type of Design Contract (g) Energy Study and Life Cycle Analysis Performed (2) Basis (a) Standard or Definitive Design Used (b) Where Design Was Previously Used (3) Total Cost (a) Production of Plans and Specification (b) All Other Design Costs (c) Total Cost (a + b or d + e) (d) Contract Cost (e) In-House Cost (4) Construction Contract Award Date (5) Construction Start Date (6) Construction Completion Date				TBD Yes TBD TBD TBD TBD TBD TBD TBD Jul 17 Sep 17 Sep 18
B. Equipment associated with this project which will be provided from other appropriations:				
<u>Equipment</u> TBD	<u>Procuring</u> <u>Appropriation</u> TBD	<u>FY Appropriated</u> <u>or Requested</u> TBD	<u>Cost</u> <u>(\$000)</u> TBD	
<p>This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.</p>				

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016	
3. Installation and Location/UIC: Campia Turzii AB, Romania		4. Project Title: ERI: Construct Two-Bay Hangar			
5. Program Element TBD	6. Category Code TBD	7. Project Number LRCT150009	8. Project Cost (\$000) 6,100		
9. COST ESTIMATES					
	Item	U/M	Quantity	Unit Cost	Cost (\$000)
	PRIMARY FACILITY				TBD
	SUPPORTING FACILITIES				TBD

	TOTAL REQUEST				6,100
	TOTAL REQUEST (ROUNDED)				<u>TBD</u>
	EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(TBD)
<p>10. Description of Proposed Construction: This project constructs a two bay hangar with a maintenance operations center, backshop, and aircraft ground equipment storage. The US does not have a usable hangar to utilize during aircraft rotations in support of Operation Atlantic Resolve.</p> <p>Air conditioning: TBD</p>					
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD</p> <p><u>PROJECT:</u> ERI: Construct Two-Bay Hangar</p> <p><u>REQUIREMENT:</u> This project will enhance Allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. Squadron rotations to Campia Turzii have to send aircraft to Germany to perform routine maintenance during inclement weather. This project also provides the infrastructure necessary for command and control, and increases the capacity for bed-down of aircraft (parking and maintenance abilities).</p> <p><u>CURRENT SITUATION:</u> TBD</p> <p><u>IMPACT IF NOT PROVIDED:</u> Aircraft will not be properly parked or maintained during periods of inclement weather and darkness. The Air Force will be limited in their ability to bed down additional missions and aircraft at Campia Turzii. Additionally, the Air Force will continue to send aircraft to Germany which significantly increases time before sortie generation. Currently, there are significant limitations on the ability to accomplish the mission. Failure to fund this project will restrict operations, significantly impact throughput, and limit the Department's ability to support peacetime and contingency operations.</p> <p><u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing.</p> <p><u>JOINT USE CERTIFICATION:</u> TBD</p>					

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Campia Turzii AB, Romania			4. Project Title: ERI: Construct Two-Bay Hangar	
5. Program Element TBD	6. Category Code TBD	7. Project Number LRCT150009	8. Project Cost (\$000) 6,100	

12. Supplemental Data:

A. Design Data (Estimates)

- (1) Status
 - (a) Date Design Started TBD
 - (b) Percent Complete as of January 2016 0%
 - (c) Date Design 35% Complete Mar 17
 - (d) Date Design 100% Complete TBD
 - (e) Parametric Cost Estimates Used to Develop Costs Yes
 - (f) Type of Design Contract TBD
 - (g) Energy Study and Life Cycle Analysis Performed TBD
- (2) Basis
 - (a) Standard or Definitive Design Used TBD
 - (b) Where Design Was Previously Used
- (3) Total Cost (\$000)
 - (a) Production of Plans and Specification TBD
 - (b) All Other Design Costs TBD
 - (c) Total Cost (a + b or d + e) TBD
 - (d) Contract Cost TBD
 - (e) In-House Cost TBD
- (4) Construction Contract Award Date Jul 17
- (5) Construction Start Date Sep 17
- (6) Construction Completion Date Sep 18

B. Equipment associated with this project which will be provided from other appropriations:

<u>Equipment</u> <u>Nomenclature</u>	<u>Procuring</u> <u>Appropriation</u>	<u>FY Appropriated</u> <u>or Requested</u>	<u>Cost</u> <u>(\$000)</u>
TBD	TBD	TBD	TBD

This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.

1. Component Air Force		FY 2017 MILITARY CONSTRUCTION PROJECT DATA				2. Date Feb 2016	
3. Installation and Location/UIC: Campia Turzii AB, Romania				4. Project Title: ERI: Extend Parking Aprons			
5. Program Element TBD		6. Category Code TBD		7. Project Number LRCT150007		8. Project Cost (\$000) 6,000	
9. COST ESTIMATES							
Item				U/M	Quantity	Unit Cost	Cost (\$000)
PRIMARY FACILITY							TBD
SUPPORTING FACILITIES							TBD
TOTAL REQUEST							6,000
TOTAL REQUEST (ROUNDED)							<u>TBD</u>
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(TBD)
<p>10. Description of Proposed Construction: This project expands the existing fighter apron to allow for additional parking spots which facilitate a squadron of 12 fighter jets. Currently, squadrons supporting rotations at Campia Turzii have to park aircraft on multiple small aprons which creates a barrier for maintenance and aircrews. This project enables rotations to centralized parking reducing distance/time between aircraft.</p> <p>Air conditioning: TBD</p>							
<p>11. Requirement: TBD Adequate: TBD Substandard: TBD</p> <p><u>PROJECT:</u> ERI: Extend Parking Aprons</p> <p><u>REQUIREMENT:</u> This project will enhance Allied and partner nation capabilities to conduct increased joint and combined operations, and will support NATO Allies in setting conditions through the air domain. Current AGM aprons are natural earth and concrete construction, yielding an unsafe worksite with numerous ruts and uneven surfaces due to erosion. This project also provides the infrastructure necessary for command and control, and increases the capacity for bed-down of aircraft (parking and maintenance abilities).</p> <p><u>CURRENT SITUATION:</u> TBD</p> <p><u>IMPACT IF NOT PROVIDED:</u> The Air Force will be limited in their ability to bed down additional missions and aircraft at Campia Turzii. Aircraft will not be properly parked or maintained during periods of inclement weather and darkness due to limited lighting on current small aprons. Currently, there are significant limitations on the ability to accomplish the mission. Lack of adequate apron space will impose significant challenges for aircrews and maintenance crews. Failure to fund this project will restrict operations, significantly impact throughput, and limit the Department's ability to support peacetime and contingency operations.</p> <p><u>ADDITIONAL:</u> The fiscal year 2015 NDAA requires all ERI projects to be submitted for NATO reimbursement. This project will be submitted for pre-financing.</p> <p><u>JOINT USE CERTIFICATION:</u> TBD</p>							

1. Component Air Force	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. Date Feb 2016
3. Installation and Location/UIC: Campia Turzii AB, Romania			4. Project Title: ERI: Extend Parking Aprons	
5. Program Element TBD	6. Category Code TBD	7. Project Number LRCT150007	8. Project Cost (\$000) 6,000	

12. Supplemental Data:

A. Design Data (Estimates)

(1) Status

(a) Date Design Started	TBD
(b) Percent Complete as of January 2016	0%
(c) Date Design 35% Complete	Mar 17
(d) Date Design 100% Complete	TBD
(e) Parametric Cost Estimates Used to Develop Costs	Yes
(f) Type of Design Contract	TBD
(g) Energy Study and Life Cycle Analysis Performed	TBD

(2) Basis

(a) Standard or Definitive Design Used	TBD
(b) Where Design Was Previously Used	

(3) Total Cost (\$000)

(a) Production of Plans and Specification	TBD
(b) All Other Design Costs	TBD
(c) Total Cost (a + b or d + e)	TBD
(d) Contract Cost	TBD
(e) In-House Cost	TBD

(4) Construction Contract Award Date Jul 17

(5) Construction Start Date Sep 17

(6) Construction Completion Date Sep 18

B. Equipment associated with this project which will be provided from other appropriations:

<u>Equipment</u> <u>Nomenclature</u>	<u>Procuring</u> <u>Appropriation</u>	<u>FY Appropriated</u> <u>or Requested</u>	<u>Cost</u> <u>(\$000)</u>
TBD	TBD	TBD	TBD

This DD1391 is based on preliminary estimates. Budget quality 1391 documents, based on completed site visits and engineering estimates that accurately define project scope, cost and timeline, are in coordination within DoD. These budget quality DD 1391 documents will be provided to the Congress in early spring so that Congress may review and act upon reliable project data.



Department of the Air Force

Military Construction Program

Fiscal Year (FY) 2017 Counter-Terrorism Support Request

**Justification Data Submitted to Congress
February 2016**

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**DEPARTMENT OF THE AIR FORCE
FISCAL YEAR 2017 COUNTER-TERRORISM SUPPORT REQUEST
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**DEPARTMENT OF THE AIR FORCE
COUNTER TERRORISM SUPPORT MILITARY CONSTRUCTION FISCAL YEAR 2017
PROGRAM SUMMARY**

	Authorization Request <u>(\$000s)</u>	Appropriation Request <u>(\$000s)</u>
Military Construction		
Planning and Design (10 USC 2807)	9,000	9,000
Total Military Construction	9,000	9,000

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1. COMPONENT AIR FORCE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION, SITE AND LOCATION HQ USAF DISTRICT OF COLUMBIA		4. PROJECT TITLE CTS: PLANNING AND DESIGN			
5. PROGRAM ELEMENT 91211	6. CATEGORY CODE 961-000	7. RPSUID/PROJECT NUMBER /PAYZ18003	8. PROJECT COST (\$000) 9,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES					9,000
PLANNING AND DESIGN		LS			(9,000)
SUPPORTING FACILITIES					0
SUBTOTAL					9,000
TOTAL CONTRACT COST					9,000
TOTAL REQUEST					9,000
TOTAL REQUEST (ROUNDED)					9,000
10. Description of Proposed Construction:					
11. Requirement: Adequate: Substandard:					
PROJECT: As required.					
REQUIREMENT: These planning and design funds are required to complete the design of facilities in the Overseas Contingency Operations (OCO) Military Construction Program for support to regional counter terrorism efforts. These funds may be used for value engineering and for support of the design and construction management of projects that are funded by foreign governments and for design of classified and special programs.					

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Department of the Air Force

Host Nation Military Construction Program

Calendar Year (CY) 2017-2018 Budget Estimates

**Justification Data Submitted to Congress
February 2016**

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**DEPARTMENT OF THE AIR FORCE
HOST NATION MILITARY CONSTRUCTION CALENDAR YEAR 2017 AND 2018
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**DEPARTMENT OF THE AIR FORCE
HOST NATION MILITARY CONSTRUCTION CALENDAR YEAR 2017 AND 2018
PROGRAM SUMMARY**

	Authorization Request <u>(\$000s)</u>	Appropriation Request <u>(\$000s)</u>
Military Construction		
Calendar Year 2017	207,500	207,500
Calendar Year 2018	145,500	145,500
Total Military Construction	353,000	353,000

Strategic Narrative

The enclosed justification book represents the United States Forces Korea (USFK) Republic of Korea Funded Construction (ROKFC) program for 2017 through 2018. Both program years (2017 and 2018) of ROKFC must be authorized at one time because the ROKFC program follows the host nation budget process, which for the Republic of Korea (ROK) Government is the calendar year (1 January thru 31 December). A ROK Government fiscal year straddles two U.S. fiscal years. Although the justification book may appear to be a list of individual projects, these projects were developed in coordination with each other to form an overall consolidated program to meet the USFK priorities and the Theater Infrastructure Master Plan – Armistice (TIMP-A) objectives. They have gone through a detailed scoring and prioritization process with involvement of the component commanders, and represent the most critical and urgent USFK operational requirements.

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**DEPARTMENT OF THE AIR FORCE
 HOST NATION MILITARY CONSTRUCTION CALENDAR YEAR 2017 AND 2018
 INDEX
 (DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	COST
REPUBLIC OF KOREA	Kunsan	3rd Generation Hardened Aircraft Shelters (HAS) Phases 4 5 6	132,500
		Upgrade Electrical Distribution System	13,000
		Kunsan TOTAL:	145,500
	Osan	Air Freight Terminal Facility	40,000
		Construct F-16 Quick Turn Pad	7,500
		Construct Korea Air Operations Center	160,000
		Osan TOTAL:	207,500
		REPUBLIC OF KOREA TOTAL:	353,000
		HOST NATION FUNDED CONSTRUCTION TOTAL:	353,000

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1. COMPONENT AIR FORCE		REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, REPUBLIC OF KOREA			4. PROJECT TITLE: 3 RD GENERATION HARDENED AIRCRAFT SHELTERS (HASs), PHASES 4, 5, 6		
5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 141-182	7. PROJECT NUMBER F18R550 MLWR033123-4	8. PROJECT COST (\$000) 132,500		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITY					82,245
3 RD GEN HARDENED AIRCRAFT SHELTERS		SM	19,098	4,306.50	(82,245)
SUPPORTING FACILITIES					35,973
UTILITIES		LS	1		(4,815)
STORM DRAINAGE		LS	1		(1,419)
PAVEMENTS		SM	94,617	71.40	(6,756)
SITE IMPROVEMENTS		LS	1		(11,808)
SOFT GROUND IMPROVEMENT/EROSION CONTROL		LS	1		(3,237)
SPECIAL FOUNDATIONS		LM	6,1263	87.55	(5,395)
FUEL OIL TANK, 10,000 GAL		EA	9	126,700	(1,140)
DEMOLITION		SM	10,702	112	(1,199)
EXTERIOR INFORMATION SYSTEM		LS	1		(204)
SUBTOTAL					118,218
CONTINGENCY (5%)					5,911
TOTAL CONTRACT COST					124,129
SUPERVISION, INSPECTION & OVERHEAD (6.5%)					8,068
TOTAL REQUEST					132,197
TOTAL REQUEST (ROUNDED)					132,200
10. DESCRIPTION OF PROPOSED CONSTRUCTION:					
<p>This project is Host Nation funded. Construct eighteen (18) third generation hardened aircraft shelters (HASs). The facility will include reinforced concrete foundation and floor slab, reinforced concrete roof/walls including steel lining plate, AFFF fire suppression system, electrical lighting system and telecommunications system. Also includes new PCC apron with airfield lighting/stripping, site improvement, storm drainage system, utilities, and all other necessary site work and supporting facilities to complete the project. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. An energy-monitoring and control system (EMCS) will be included. The project includes demolition of 18 existing first generation HASs (512 SM each) and two aircraft power check pads at 10,702 SM. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 3-260-01). This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. This project fulfills US requirements only and will be designed and constructed for US exclusive use.</p>					
11. REQUIREMENT: 104 EA ADEQUATE: 0 EA SUBSTANDARD: 56 EA					
PROJECT: Construct eighteen (18) third generation hardened aircraft shelters (Current mission).					
REQUIREMENT: Properly designed, adequately configured and furnished hardened aircraft shelters are necessary to protect combat fighter aircraft, air crews and sortie-generation maintenance personnel from accidental detonation of nearby munitions, and to provide a safe working environment where aircraft engine run-up can be performed inside the shelter when doors are closed. Also, it is essential for combat readiness and sustainment for the assigned wing combat fighter aircraft and follow-on fighters. That is imperative at this fight-in-place base that provides the essential first line of defense and sustained combat air support for the defense of the Republic of Korea.					

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, REPUBLIC OF KOREA		
4. PROJECT TITLE 3RD GENERATION HARDENED AIRCRAFT SHELTERS, PHASES 4, 5, 6	5. PROJECT NUMBER MLWR033123-4	
<p><u>CURRENT SITUATION:</u> The base has a total of 56 HASs and ten flow-through shelters. The existing HASs were constructed in 1969-70 and are hardened on both front and rear sides. Each HAS requires major repair/upgrade to make it functionally adequate to protect combat assets and maintain combat fighters, including engine run-up in the shelters when they are completely closed during hostile attack. The concrete exteriors of the shelters are cracked, resulting in water leaks and accelerated corrosion to the interior wall liners, electrical and mechanical systems, and ponding on the floor, all of which cause an unsafe working environment and foreign object damage (FOD) risk to combat fighters located in the shelters for protection. Concrete floors are cracked and are another source of FOD. Mechanical ventilation and AFFF fire suppression are inadequate. Electrical systems must be upgraded to keep the aircraft shelters functional so maintenance operations can be performed in a safe and efficient manner. Also the existing HASs are 1st generation tactical air base hardened aircraft shelters. Larger aircraft such as F-15, A-10, F/A-22, and F-35 will not fit in the shelters with proper wing tip clearance. Therefore, adequate and fully functional shelters are needed to enhance operational security (OPSEC) by providing secure locations to prepare and launch operational/sensitive missions by screening mission preparations from any opposing force.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Aircraft will continue to be parked in substandard shelters that do not provide adequate protection from accidental detonation of nearby munitions, pose a FOD risk, and maintenance personnel will continue to work in an unsafe work environment. Consequently, survivability of wing combat aircraft and follow-on fighters will be jeopardized with a corresponding reduction in counteroffensives, air interdiction, and combat air patrol capability at this fight-in-place base, which is postured to respond to an attack within only a few minutes. Without this project, Kunsan Air Base cannot house larger aircraft such as F-15, A-10, F/A-22, and F-35 inside protected shelters with proper wing clearance. This severely limits the installation's ability to accept and support follow-on forces.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." This is the 4th-6th phase of multi-phased project This project is located on an installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. Base Civil Engineer: 011-82-63-470-5400. 3rd Gen HASs: 19,098 SM = 205,570 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p>		

1. COMPONENT AIR FORCE		REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE			
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, REPUBLIC OF KOREA				4. PROJECT TITLE: UPGRADE ELECTRICAL DISTRIBUTION SYSTEM				
5. PROGRAM ELEMENT N/A		6. CATEGORY CODE 812-225	7. PROJECT NUMBER F12R701 MLWR887728		8. PROJECT COST (\$000) 13,000			
9. COST ESTIMATES								
ITEM					U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITY								9,900
PRIMARY U/G ELECT DISTRIBUTION LINE					LM	12,000	425	(5,100)
LOAD & FAULT INTERRUPTER SWITCHES					EA	80	60,000	(4,800)
SUPPORTING FACILITIES								1,706
EARTH WORK					LM	12,000	5	(60)
SITE IMPROVEMENT					LS			(180)
TRANSFORMER, PAD-MOUNTED					EA	52	8,000	(416)
UPGRADE SERVICE TO BUILDINGS					EA	52	10,000	(520)
DEMOLITION					LM	11,000	30	(330)
DEWATERING & MISC WORK					LS			(200)
SUBTOTAL								11,606
CONTINGENCY (5%)								580
TOTAL CONTRACT COST								12,186
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)								792
TOTAL REQUEST								12,978
TOTAL REQUEST (ROUNDED)								13,000
10. DESCRIPTION OF PROPOSED CONSTRUCTION								
Upgrade existing overhead primary electric lines with new higher capacity underground primary lines is necessary to provide a reliable, survivable, and expandable electrical distribution system to support the base flying mission. The project includes removal of existing overhead electric lines and pole-mounted transformers, installation of new underground primary electric lines with concrete encased duct, manholes, load and fault interrupter switches, and pad-mounted transformers. Also includes upgrade services to buildings by eliminating overhead service drops with underground service lines, site improvements and all other necessary support to complete the project. The project includes demolition of 11,000 LM of existing overhead primary electrical distribution lines. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 1-200-01 and UFC 1-200-02). This project will comply with DoD antiterrorism/ force protection requirements per UFC 4-010-01 and an energy-monitoring and control system (EMCS) will be included.								
11. REQUIREMENT : 46,544 LM ADEQUATE: 34,544 LM SUBSTANDARD: 0 LM								
PROJECT: Upgrade Electrical Distribution System. (Current Mission)								
REQUIREMENT: A higher voltage distribution system is required to meet increased power demands, so the system must meet base power requirements reliably and economically. This is the final of a three-phased program to upgrade the Kunsan Air Base electrical distribution system.								
CURRENT SITUATION: Even though the 1 st and 2 nd phase of electrical distribution system upgrade was completed back in late 1980s, the existing leftover overhead electrical distribution system is Korean War vintage and needs to be replaced. Also the present system consists of overhead and underground distribution lines that do not have the capacity to support new facilities. Portions of the base overhead primary system are not rated for the voltage applied. Some insulators are rated at 5KV and the distribution system is 6.6KV.								
IMPACT IF NOT PROVIDED: As the demand for electrical energy continues to increase, the capacity of the transmission lines will be further exceeded. This will increase the frequency of load shedding and brownouts while also increasing the potential for system damage. A substantial amount of electrical energy will continue to be lost due to undersized transmission lines. If this project is not provided, mission effectiveness will be adversely impacted.								

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, REPUBLIC OF KOREA		
4. PROJECT TITLE UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	5. PROJECT NUMBER MLWR887728	
<p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." This project is located on an installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. Base Civil Engineer: 011-82-63-470-5400. New Underground Primary Electric Lines: 12,000 LM (39,370 LF).</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements</p>		

1. COMPONENT AIR FORCE		REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE	
3. INSTALLATION AND LOCATION OSAN AIR BASE, REPUBLIC OF KOREA			4. PROJECT TITLE: AIR FREIGHT TERMINAL FACILITY		
5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 141-782	7. PROJECT NUMBER F17R601 SMYU153008	8. PROJECT COST (\$000) 40,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
<u>PRIMARY FACILITY</u>					27,401
Cargo Terminal		SM	5,900	2,354	(13,889)
Administration Building		SM	2,088	3,335	(6,963)
Vehicle Maintenance/Storage Building		SM	2,026	2,967	(6,011)
Sustainability and Energy Measures		SM	10,014	54	(538)
<u>SUPPORTING FACILITIES</u>					8,369
Utilities		LS			(1,250)
Back-up Power		LS			(500)
Pavements		LS			(2,922)
Site Improvements		LS	4,735	158	(1,699)
Demolition		SM			(748)
Communications Support		LS			<u>(1,250)</u>
SUBTOTAL					35,770
CONTINGENCY (5%)					<u>(1,789)</u>
TOTAL CONTRACT COST					37,559
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					<u>(2,441)</u>
TOTAL REQUEST					40,000
10. DESCRIPTION OF PROPOSED CONSTRUCTION:					
<p>This project is Host Nation funded. Construct an Air Freight Terminal Facility; project includes Cargo Terminal and Administration Building, Vehicle Maintenance and Storage Building, fire protection and alarm systems, and Energy Monitoring Control Systems (EMCS) connection and building information systems. Supporting facilities include demolition of existing buildings, site development, utilities and connections, back-up power generator, lighting, paving, parking, walks, curbs and gutters, storm drainage, information systems, landscaping and signage. Project includes 4,735 SM of demolition. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 1-200-01 and UFC 1-200-02). This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. This project fulfills US requirements only and will be designed and constructed for US exclusive use.</p> <p>Air Conditioning: 200 Tons</p>					
11. REQUIREMENT: 10,014 SM		ADEQUATE: 0		SUBSTANDARD: 4,735SM	
PROJECT: Construct an Air Freight Terminal. (Current Mission)					

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, REPUBLIC OF KOREA		
4. PROJECT TITLE AIR FREIGHT TERMINAL FACILITY	5. PROJECT NUMBER SMYU153008	
<p><u>REQUIREMENT:</u> To provide an adequately-sized and properly configured Air Terminal Facility for joint and combined warfighting capabilities in the Republic of Korea to include maintaining armistice, while being able to support exercises, crisis situations, evacuation operations, and kinetic operations. The facility will provide the required interior and exterior storage and materiel handling capability to support the 731 AMS in Reception, Staging, Onward Movement (RSO) in support of United States Forces Korea (USFK), Combined Forces Command (CFC), Republic of Korea Air Forces (ROKAF) and United Nations Command (UNC) mission. The AMC En Route Facility Criteria Handbook was used to provide guidance on allowable areas. Terminal Operational areas were determined based upon a 36 month average of incoming and outgoing pallets based upon information received from AMS as follows: 28,795 pallets (incoming and outbound totals over 36 months) / 36 months = 799 pallets per month. Per En Route guidance, the allowable space allocation for enclosed terminal operations areas = 39,000 to 59,000 square feet. This excludes office areas. During Contingency/surge operations 731 AMS will receive in excess of 300 pallets per day with a third requiring inside/covered/secure storage which is currently lacking. These will consist various types of commodities to include Class I - Subsistence (food), gratuitous (free) health and comfort items, Class II - individual equipment, organizational tool sets and kits, hand tools, unclassified maps, administrative and housekeeping supplies and equipment, Class V - Ammunition of all types, bombs, explosives, mines, fuses, detonators, pyrotechnics, missiles, rockets, propellants, and associated items, Class VI - Personal demand items (such as health and hygiene products, soaps and toothpaste, writing material, snack food, beverages, cigarettes, batteries, alcohol, and cameras—nonmilitary sales items), Class VIII - Medical material (equipment and consumables) including repair parts peculiar to medical equipment, (Class VIIIa – Medical consumable supplies not including blood & blood products; Class VIIIb – Blood & blood components (whole blood, platelets, plasma, packed red cells, etc.), and Class IX - Repair parts and components to include kits, assemblies, and subassemblies (repairable or non-repairable) required for maintenance support of all equipment. Currently, Osan cannot support human remains repatriation without severe work around, significantly delaying repatriation efforts. During wartime operations, at any one time, several hundred remains requiring transport at Osan will require indoor storage. This inside storage is critical to maintain balance between repatriation and incoming RSO forces. Additionally, during natural disasters and to assist Internally Displaced Persons (IDPs), Humanitarian Assistance (HA) will be moved strategically to Osan for forward retail distribution. HA commodities include Class I, Class IV, and Class VIIIa/b which require covered and/or refrigerated storage. Projections exceed 1 million IPDs if the North Korea regime collapses. The facility must meet Korea Environmental Governing Standards (KEGS) and Federal Environmental Protection Agency requirements in conjunction with current National Emission Standards for Hazardous Air Pollutants (NESHAPS). Facilities will include new structures to house functional areas including vehicle maintenance and storage, and cargo terminal operations. Vehicle maintenance and storage building will provide for the storage, contamination avoidance and maintenance for a variety of support vehicles including: pallet loaders, forklifts, potable water trucks, aircraft lavatory fluids supply and waste vehicles, as well as a variety of specialized support vehicles. A vehicle maintenance mechanic on site at this location will perform routine on-demand vehicle maintenance. Additionally vehicle washing, decontamination and sanitation functions will occur in this facility. Cargo Terminal building includes administrative areas to support 731 AMS functions as well as mission command and control functions. The building will also include increased ability and efficiency for the receipt and shipping of various materials; primarily in pallet form for trucks and airplanes in protected area under roof extension (covered storage). Truck dock loading functions allow for side load and end load vehicles including “18 wheelers” and material handling equipment is incorporated into the facility. Large open bays are provided to allow for unrestricted vehicle movement and storage required for efficient operations. Special storage areas are provided for hazardous and/or secure materials storage to include an ample reefer for items needing refrigeration.</p>		

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, REPUBLIC OF KOREA		
4. PROJECT TITLE AIR FREIGHT TERMINAL FACILITY	5. PROJECT NUMBER SMYU153008	
<p>CURRENT SITUATION: The project includes replacement of the existing 731 AMS Air Freight Terminal Operations facilities at Osan AB, Republic of Korea (ROK). The 731 AMS presently operates in outdated and inadequate cargo terminal facilities at Osan. Osan handles all inbound and outbound DoD and Joint Service air freight for the Korean Peninsula. The existing facilities are significantly below recommended AMC En Route guidelines. Smaller areas restrict efficient operations and capabilities during normal operations and preclude any capacity to surge when required. Existing facilities are both inefficient in design and layout and many are in need of repair including leaking roofs and inoperable heating systems. Mechanical and plumbing systems are missing and/or inadequate. The existing terminal has internal columns restricting vehicle movement and storage opportunity. Authorized storage occurs in separate facilities causing further inefficiencies. Dock and loading areas are inadequate and do not allow for side loading and unloading directly into the terminal restricting operational effectiveness. Facilities are inadequate to properly store vehicles providing protection from the elements and possible chemical contamination. Cargo (pallets) is stored on grade in the exterior grid yard. Cargo is regularly reported as damaged from rains and floods. Current layout does not provide a clear separation of secure and non-secure storage operations area on site. A lack of clear separation from secure and non-secure operations will continue to significantly limit operations.</p> <p>IMPACT IF NOT PROVIDED: Inadequate facilities will continue to significantly limit operational efficiency and effectiveness and pose significant risk to the 731 AMS contingency, armistice and wartime mission. Mission capabilities will experience significant limitations, with no surge capabilities for emergencies or contingencies. The current storage, spread over two buildings, will continue to significantly degrade peacetime repatriation activities and wartime repatriation operations will continue to be unattainable. Personnel will continue to use outdoor areas for functions requiring an indoor environment. Outdoor storage of cargo will continue to be damaged from rain and flooding and possible chemical contamination. In addition, current facilities and infrastructure at Osan will continue to significantly limit operations for two combatant commands (USPACOM and USTRANSCOM) as well as USFK (a subordinate unified command).</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". Base Civil Engineer: 011-82-31-661-4312. Air Freight Terminal: 10,014 SM = 107,789 SF.</p> <p>JOINT USE CERTIFICATION: This facility can be used on an "as available" basis. However, the scope of the project is based on USAF, USFK, CFC and UNC requirements.</p>		

1. COMPONENT AIR FORCE		REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE	
3. INSTALLATION AND LOCATION OSAN AIR BASE, REPUBLIC OF KOREA			4. PROJECT TITLE: CONSTRUCT F-16 QUICK TURN PAD		
5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 113-321	7. PROJECT NUMBER F17R501 SMYU163001	8. PROJECT COST (\$000) 7,500		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITY					2,640
F-16 Quick Turn Pad (8 Aircraft Parking Spots)		SM	15,000	176	(2,640)
SUPPORTING FACILITIES					4,110
Airfield Edge and Apron Lighting		LS			(600)
Airfield marking		LS			(70)
Reroute Utilities		LS			(1,500)
Relocate Giant Voice		LS			(100)
Site Improvements		LS			(540)
Revetment		LM	200	6,000	(1,200)
Demo/Transporting Contaminated Soil		LS			(100)
SUBTOTAL					6,750
Contingency (5%)					(338)
TOTAL CONTRACT COST					7,088
Supervision, Inspection and Overhead (6.5%)					(461)
TOTAL REQUEST					7,548
TOTAL REQUEST (rounded)					7,500
10. DESCRIPTION OF PROPOSED CONSTRUCTION:					
Project is Host Nation Funded. Project constructs a F-16 Quick Turn Pad and includes construction of a new F-16 quick turn pad, airfield marking, airfield edge and apron lighting, tie-down anchors, airfield grounding system, shoulder pavement, reroute utilities, relocate switch gear, relocate giant voice, storm drainage, site improvements, revetment and all other necessary support. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 3-260-01). This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. This project fulfills US requirements only and will be designed and constructed for US exclusive use.					
11. REQUIREMENT: 15,000 SM		ADEQUATE: 0 SM		SUBSTANDARD: 15,000 SM	
PROJECT: Construct a F-16 Quick Turn Pad. (Current Mission)					
REQUIREMENT: This project is required to construct a F-16 Quick Turn Pad in the northern area of Alpha Diamond in compliance with current Air Force standards and criteria. F-16 Quick Turn Pad needs to be large enough to park eight F-16s with the ability to taxi behind parked aircraft. Pad must be constructed to guidelines in UFC 3-260-01. Apron Lighting is also required for night operations and security.					

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE
3. INSTALLATION AND LOCATION Osan Air Base, Korea		
4. PROJECT TITLE CONSTRUCT F-16 QUICK TURN PAD	5. PROJECT NUMBER SMYU163001	
<p><u>CURRENT SITUATION:</u> Currently F-16s must be pushed back into Hardened Aircraft Shelters (HAS) between sorties to prepare the aircraft for the next flight. This requires the pilot to remain in the seat while a team of eight maintenance personnel push the plane back into the HAS. This is a time consuming process and reduces the time available to perform maintenance actions for the next mission. Constructing a quick turn pad eliminates the need for push-backs for the aircraft parked on it. Additionally, maintenance will have most aircraft for the next mission in close proximity to one another, reducing maintenance time, manpower and travel time. The quick turn pad will free up more than 5,000 man-hours per year.</p> <p><u>IMPACT IF NOT PROVIDED:</u> If this project is not provided, mission accomplishment will be degraded by continual time consuming efforts and decreasing efficiency. Training loss is also a reality as efficiency decreases to a point where maintenance no longer has time to perform critical inspections or actions on aircraft due to push-back requirements.</p> <p><u>ADDITIONAL:</u> This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." Base Civil Engineer: 011-82-31-661-4312. F-16 Quick Turn Pad: 15,000 SM = 161,459 SF.</p> <p><u>JOINT USE CERTIFICATION:</u> This facility can be used on an "as available" basis. However, the scope of the project is based on USAF, USFK, CFC and UNC requirements.</p>		

1. COMPONENT AIR FORCE		REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE	
3. INSTALLATION AND LOCATION OSAN AIR BASE REPUBLIC OF KOREA			4. PROJECT TITLE: CONSTRUCT KOREA AIR OPERATIONS CENTER		
5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 141-446	7. PROJECT NUMBER F15R680 SMYU143001	8. PROJECT COST (\$000) 160,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
<u>PRIMARY FACILITY</u>					104,088
Combined Air & Intelligence Operations Center (US Only)		SM	3,467	6,515	(22,586)
Combined Air & Intelligence Operations Center (US & ROK Share)		SM	12,198	6,515	(79,465)
Sustainability and Energy Measures		SM	15,665	130	(2,036)
<u>SUPPORTING FACILITIES</u>					38,975
UTILITIES		LS			(7,189)
COMMUNICATIONS SUPPORT		LS			(12,500)
SITE IMPROVEMENTS		LS			(8,075)
PAVEMENT		SM	18,000	130	(2,340)
PASSIVE AT/FP		LS			(650)
PARKING STRUCTURE (400 cars)		SM	14,500	560	(8,116)
DEMOLITION/MISCELLANEOUS		SM	813	130	(106)
SUBTOTAL					143,063
CONTINGENCY (5%)					7,153
TOTAL CONTRACT COST					150,216
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)					9,764
TOTAL REQUEST					159,980
TOTAL REQUEST (rounded)					160,000
10. DESCRIPTION OF PROPOSED CONSTRUCTION:					
<p>This project is host-nation funded. Construct a 40,142 SM combined Korea Air Operations Center. This project only includes approximately 3,467 SM of US only use area and 12,198 SM of joint use area in the overall 40,142 SM. The facility consists of a multi-story hardened concrete structure partially below grade. The facility must be adequately protected from conventional weapons as well as high altitude electromagnetic pulse. Many specialized security systems must be built into the interior layout including USAF only rooms, ROKAF only rooms and combined USAF-ROKAF organizations requiring partition walls. Approximately 80% of the floor space will utilize a raised access floor system for upgrades and/or repair of communication system lines as required. Additional flexibility is required to allow for future expansion utilizing mezzanine systems allowed by the high floor to floor dimension of 5.4 meters subject to initial mechanical, electrical, comm. and plumbing infrastructure planning. The Air Operations Center's main operations floor requires a special constructed raised ops floor that will require a pit floor and tiered operator seating. This seating requirement along with the two story Ops floor, allows direct sightlines from the Ops floor battle cabs (both USAF and ROKAF) and within the Ops floor itself. The visual sightlines are considered paramount to the Ops floor flexibility and usability. The open 2-story Ops floor is best described as a "center of gravity" and will be centrally placed amongst USAF and ROKAF organizations with required adjacencies for efficiency to conduct Air & Intelligence operations. Additionally the overall project includes a 14,500 SM parking garage and a pedestrian tunnel, as well as two (2) relocated recreational pavilions with bathrooms. Demolition of facilities is also included in the project. The building shall be also compliance with UFC 3-600-01, Fire Protection Engineering for Facilities. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 1,000 Tons</p>					